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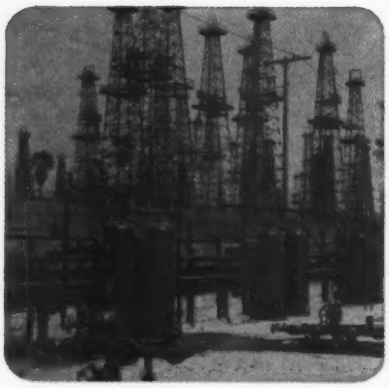

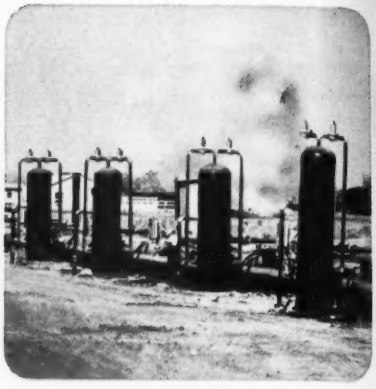
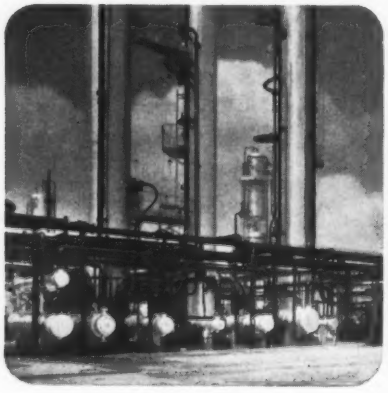

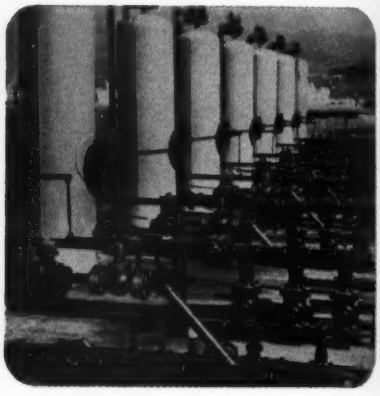

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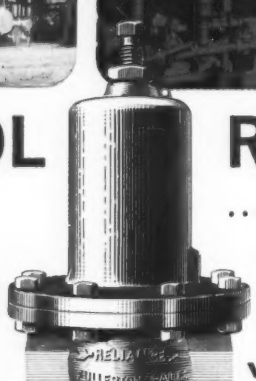

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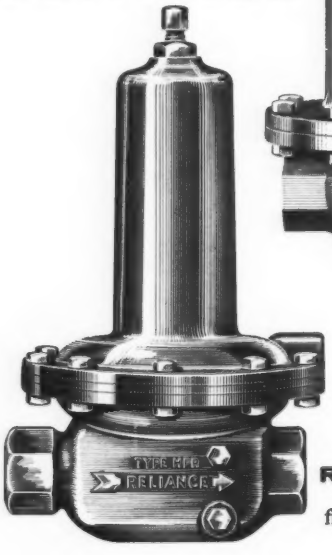

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Producers Eye Marketing Developments

Major changes are taking place in the historic marketing picture in the West and especially in California.

Traditionally the needs of the motorist in this area have been served by seven major companies and a considerable number of independent refiners and marketers.

Now we have twelve integrated majors represented here with a lesser number of independents.

The long established majors are Standard of California, Shell, Union, Mobil, Richfield, Texaco and Tidewater.

The newcomers are Signal Oil and Gas Co., which assumed major status through acquisition of Hancock and other outlets; Gulf, through purchase of Wilshire; Continental, in taking over Douglas; Standard of New Jersey, with the expansion here of Humble Oil & Refining Co.; and Standard of Indiana, through its marketing subsidiary, American Oil Co.

Several important questions are posed by these developments:

1. What effect will this have in stabilizing the market?
2. Will the relative positions of the long established marketers percentagewise change?
3. Can the California producers, who have been hoping for increases in crude oil prices for many months, find encouragement in the marketing changes?

Time alone will provide the answers to these questions, but a review of the situation may at least suggest possible trends.

The latest available figures on net taxable gallonage of motor vehicle fuel in California as released by the State Board of Equalization indicate the following portion of the market enjoyed by each of the companies listed:

Standard Oil of Calif.	21.6%
Shell Oil Co.	11.9%
Union Oil Co.	10.0%
Mobil Oil Co.	9.6%
Richfield Oil Corp.	9.0%
Texaco Inc.	8.0%
Tidewater Oil Co.	7.5%
Wilshire Oil Co. (Gulf)	4.5%
Signal Oil & Gas Co.	4.4%
Douglas Oil (Continental)	2.0%

Humble Oil & Refining Co. and American Oil Co. do not have any taxable gallonage reported. The above companies' gallonage is 88½% of the total. The other 11½% is independents and miscellaneous.

The figures are not 100% correct, due to exchanges or sales of products, but are close enough for comparison.

With reference to the five new arrivals in the market, a few more detailed notes might be of interest.

Signal Oil & Gas Co.

Since Hancock merged with Signal Oil & Gas Co., Signal should be considered a major marketer. They are energetically engaged in both wholesale and retail operations.

There are about 500 service stations dispensing products with Hancock brands, covering the entire State of California and extending into Nevada.

In addition there are about 400 Norwalk stations supplied by Signal, which are located from Bakersfield north, and about 100 Regal stations, also in the northern part of the state.

The marketing operations of Signal Oil & Gas Co. should not be confused with those of Signal Oil Co., which is a wholly owned subsidiary of Standard Oil Company of California.

Gulf-Wilshire

Gulf took over control of Wilshire Oil Co. in July, 1960, and since that time Wilshire has operated as a wholly owned subsidiary of Gulf.

The trade-marked brands of products, station color scheme and other essential methods of operation have been continued as before and are expected to go along this way indefinitely.

Expansion in the number of retail outlets is going on. While Wilshire has been strongly represented in number of stations in Southern California and the San Francisco Bay area for years, they are now engaged in a program of establishing stations in other portions of the state.

Wilshire also has dealers in Phoenix and Tucson, Arizona, and Las Vegas, Nevada.

The company has about 800 retail outlets. Their business is predominantly in the retail field, not having been too concerned with securing wholesale customers up to this time.

Continental-Douglas

On May 1, 1961, control of Douglas Oil Co. of California passed into the hands of Continental Oil Company. Since that date Douglas has operated as a wholly owned subsidiary of Continental.

Marketing operations are continuing as before, with no change in color scheme of stations, brand names or other noticeable essentials.

Douglas has about 250 retail outlets throughout California and Southern Oregon.

Expansion plans have not been announced but will no doubt become apparent in the coming months.

Humble Oil & Refining Co. (Standard of New Jersey)

This company entered the local market about a year ago when it purchased the outlets of Major Gasoline Co., which are located in Southern California, Nevada and Arizona.

Subsequently outlets of City Oil Co. in the San Francisco Bay area and A. H. Shipkey in Orange County were acquired. August 4th saw the opening of 21 stations in the Stockton region, acquired from the Petroleum Products Co.

At this writing there are about 100 service stations displaying the Enco sign in California and Nevada.

Enco is the Humble brand name for both gasoline and lubricating oil and is used in all areas west of the Mississippi. Enco means "Energy Company."

The Los Angeles District marketing office has jurisdiction over California and Nevada. Separate district offices will be opened in San Francisco in the near future.

Humble's method of operation is to acquire the various properties and lease to dealers. They also supply the dealers with tires, batteries and accessories.

Humble is said to have entered the field because of the large and fast-growing market, which indicated that marketing operations would be profitable.

Humble is a subsidiary of Standard Oil Co. of New Jersey. The Jersey company was previously represented in the Pacific Northwest states by Carter Oil Co.

American Oil Co. (Standard of Indiana)

American Oil Co. began functioning as the nationwide operating affiliate of Standard of Indiana January 1, 1961.

On July 10th it was announced that regional offices to direct the company's western marketing operations were being established in Los Angeles, with W. C. Kniefel as regional manager.

No further information on plans was available for publication, inquiry at Chicago headquarters disclosed.

It is understood that California and several adjoining states will be handled from Los Angeles.

Reasons for Moves

While direct statements from the companies involved are not available as to reasons for the moves, it is well known that the West Coast economy both current and projected is the fastest growing in the nation. It is natural that the companies want to participate profitwise in this growth.

There also seems a desire in many cases to go nationwide in operations, a status previously attained by such companies as Shell, Texaco and Mobil. Standard of California has already moved in this direction from west to east through its subsidiary, California Oil Co., in the Atlantic seaboard states and the proposed acquisition of Standard of Kentucky outlets in five southern states.

Possible Developments

Informed opinion in marketing circles here seems to feel that any changes brought about by this invasion from the East will be gradual and not too drastic. The newly arrived companies will of course bring with them their own marketing ethics and practices.

These might not coincide with some historic practices in vogue here. Changes might ensue. But it is certainly **not** expected that the newcomers will be out to disrupt the market.

The companies will have too large an investment in plant and other facilities to risk throwing it away through price wars or other unfavorable acts.

The companies all enjoy the highest reputation in their old established areas, where their practices have been sound.

The gallonage that they secure in the western market will no doubt come from these sources: (a) established majors, (b) independents, and (c) economic growth.

It may very well be that the growth of the West will prove that there is room for all and that nobody will be hurt.

At least the gasoline handled by the recent arrivals will be in "strong hands," and from that standpoint should be a stabilizing factor in the market.

Destructive price wars which have plagued the industry in the past have usually been caused by a surplus of gasoline which has found its way through back-door outlets into the wrong hands, and by gasoline imports by discount houses and others, both resulting in depressed retail prices.

These causes may well become less important following the advent of the new majors.

Since the gallonage growth of the new marketers is expected to be gradual and be derived from several sources, the relative positions of the established majors should show very little change.

As to possible strengthening of crude oil prices, it still must be assumed that purchasing companies are unlikely to increase posted prices until the prices of gasoline are stable.

That time does not appear to have come as yet. If the advent of the new majors works toward that hoped-for result, then optimism may be justified.

Republic Supply Stages Big Materials Exposition

Fifty-five manufacturers recently demonstrated their products to the entire sales force of The Republic Supply Company of California. More than a hundred representatives set up their displays in Republic's Los Angeles headquarters and spent an entire day staunchly answering questions fired at them by Republic sales people.

The magnitude of the exposition required careful planning so that every Republic salesman could be exposed to every product in the exposition and every one of the manufacturers' representatives. This was accomplished by dividing the products into eight major categories and dividing the Republic salesmen into eight groups, each group moving sequentially through the eight product categories. The products were (1) fittings, (2) metals, (3) oil industry items, (4) pipe, (5) valves, (6) waterworks items, (7) tools, and (8) general products.

Theme of the exposition was that the product categories were "keys to opportunity." In keeping with the theme, each Republic salesman was given a key, one of which would open a treasure chest at the exposition. The lucky winner found a U. S. Government Savings Bond when he unlocked the chest.

Republic served a buffet luncheon to everyone who attended.

Just One of Standard Oil of Calif. Studies

Everything seems routine aboard the Motor Ship Frances Salman as it plies the Pacific, carrying newsprint between Western Canada and Long Beach, Calif.

But there is one big difference between this vessel and the rest of the world's ships. She is wearing a radioactive piston ring in one of the six cylinders of her big diesel engine.

The "hot ring," installed by scientists of Standard Oil Company of California, is the heart of a project for studying lubrication, ring wear, fuels and metallurgy.

ENGINEERS USE EXTENDED ring expanders to carry safely a radioactive piston ring to the engine room of the Motor Ship Frances Salman. The "hot ring" was installed in the vessel's engine in a research program conducted by Standard Oil Company of California.

The ring, made radioactive in the government's atomic pile at Oak Ridge, Tennessee, is the largest piston ring ever irradiated. It is 30 inches in diameter and weighs 10 pounds.

Goals of the study are to help ship operators reduce operating costs, to further improve Standard's marine products, and to expand the Company's service to marine accounts, Standard said. One reason the Frances Salman was selected for the test is that its Swedish Gotaverken engine, 5,700 shaft HP, is a type popular throughout the world. The findings will consequently be of interest to a great number of shippers.

Here's how the "hot ring" aids scientists to learn more about engines and fuels:

In normal engine operation, tiny amounts of metal wear off the piston rings. Scientists can measure these particles from a radioactive ring in the lube-oil system with Geiger tubes, a scaler and a recording clock. Lesser traces in the exhaust gas are filtered out and measured by an extremely sensitive instrument. Other devices record the varying operating conditions of the engine. Thus, the scientists can clearly compare wear rates obtained with different fuels, oils and additives.

The radioactive ring was installed at Powell River, British Columbia, with full precautions taken for the crew's safety. However, Standard research men pointed out that more radioactivity escapes from the captain's luminous watch dial than from the shielded piston ring.

"It isn't that the ring's so 'hot' that enables us to make these tests," a Standard spokesman explained, but that the instruments used are so sensitive."

The oil company's scientists will be working on this project aboard the Frances Salman for six to eight months. The company pioneered the use of radioactive piston rings in earlier research projects, using "hot rings" in automobile and locomotive engine studies.

Signal, Conoco Pool Westside Land to Seek Oil

Four thousand urban oil leases in the Westwood-Sawtelle area of Los Angeles have been pooled for wildcat drilling by Signal Oil and Gas Company and Continental Oil Company, it was reported this month by Signal.

Signal, operator for itself and Richfield Oil Corporation in West Los Angeles, said it will operate the exploratory venture for the three companies.

Comprising more than 1,000 acres, the potential oil land is bounded roughly by Santa Monica Boulevard on the north, Kelton Avenue on the east, Exposition Boulevard on the south, and Centinela Avenue (the Santa Monica city line) on the west.

Application for drilling districts in the new exploratory area will be made immediately by Signal, which said it plans to start drilling here within two or three months.

Signal hopes to drill from a site in a secluded M-2 zone west of Sepulveda Boulevard near La Grange Avenue.

AFTER AERIAL INSPECTION of newly announced potential oil field in West Los Angeles, Russ Green, Jr., Signal Oil and Gas Company's exploration manager, arrives at Hillcrest Country Club drillsite. Pilot is Peter K. Pascal.

Intense leasing campaigns were waged in the area at the end of 1959 by Signal and Conoco, which owns a 50% interest in the operation here. The remaining 50% interest is divided equally between Signal and Richfield.

Signal has successfully completed 22 Westside wells producing approximately 6,200 barrels of oil daily from sites on Hillcrest Country Club and city-owned Rancho Park, adjacent to which it has leased more than 3,000 acres for oil development.

The company is currently drilling U-44 No. 2 from the Rancho Park site.

PACK MULE WITH MOTOR—The sway-backed mules of the old '49ers never could have reached some of the places these fellows go in their new vehicle for geologists, explorers, prospectors, and other trail blazers. Mobility for the Desert Rat is provided by Goodyear's low-pressure Terra-Tires to deliver a soft ride without bogging down or blowing out.

UOP First Half Earnings Higher

Consolidated net income of Universal Oil Products Company for the six months ended June 30 increased to $1,224,869 from $814,121 in the comparable period last year, UOP's interim report to shareholders will reveal. Per-share earnings for the 2,935,179 shares of common stock outstanding were 42 cents, against 28 cents per share for 2,900,000 shares outstanding the first half of 1960.

Universal's earnings reflect for the first time the contributions of The Trubek Laboratories for a full six months. In the comparable 1960 period only three months of Trubek's earnings were included and UOP's percentage of ownership then was considerably smaller.

Gross income was $52,727,541, up from $29,914,709 for the first half a year ago. Cash flow for the six months just concluded equaled $1.48 per share, compared to $1.25 for the similar 1960 period.

Board chairman M. P. Venema said UOP expects further improvement in its earnings in the final half of 1961. "This expectation is based upon anticipated higher second-half revenue from royalties, engineering and general service activities, marked improvement in profit from construction projects, and the continuing upward trend of profits from the sale of products."

Continental-Emsco Company's Fibercast Division Expands Activities

The coming of age of modern reinforced plastic products and a hint of even more rapid future growth is reflected in two personnel appointments announced by **Craig Smyser,** vice president of Continental-Emsco Company and general manager of its Fibercast Division.

Fibercast is the world leader in glass reinforced thermosetting plastic pipe, producing a centrifugally cast epoxy pipe on a seamless woven glass fiber sleeve. This pipe has had wide acceptance in the processing industries.

Phillip J. Liston, district sales manager, was named assistant general sales manager in charge of special projects. Marion F. Hutchison has been appointed district sales manager for California, Oregon, Washington and Arizona.

Fibercast was bought by The Youngstown Sheet and Tube Company to meet "impossible" corrosion problems, particularly in the oil and gas industry. It sold its first product in 1955 and sales were exclusively in this market.

In addition to its corrosion-resistant heat and temperature characteristics, Fibercast has desirable dielectric properties and has been successfully used as structural material, particularly in radar and communication applications where these dielectric properties provide interference-free reception transmission.

Phillip Liston has worked for Continental-Emsco Company for a period of approximately five years.

Marion Hutchison joined Continental-Emsco in 1955 as a branch store trainee.

Mr. Hutchison will have over-all supervisory relationship with all authorized distributors of Fibercast in his respective district. This will include technical assistance and advice, interpreting company policy and distributor contracts, and training of distributor sales personnel.

Continental-Emsco and Fibercast are divisions of The Youngstown Sheet and Tube Company.

Crestmont Consolidated Buys Eastmont Oil Co.

Crestmont Consolidated Corporation has acquired Eastmont Oil Company of Los Angeles for an undisclosed amount of cash, Carl T. Long, president of Crestmont, announced.

Eastmont has a 100% working interest in and is operator of five oil wells producing in Kern County, California. Acquisition of Eastmont will add approximately 100,000 barrels of oil to Crestmont's reserves, bringing its total to 5,335,577 barrels, Mr. Long stated.

TOUR PACIFIC MISSILE RANGE HEADQUARTERS—In order to orient prominent persons in industry regarding our missile program, the Navy League of the United States recently arranged a visit to the Pacific Missile Range. This two-day V.I.P. tour was designed to acquaint community leaders with the current missile program and consisted of inspection, orientation and discussion of all phases of missile development at Pacific Missile Range Headquarters, Point Mugu, followed by a day at sea, where research and development were demonstrated aboard the U.S.S. Norton Sound, the research and development ship assigned to the Pacific Missile Range. Shown with the Commander of the Pacific Missile Range, Rear Admiral Jack P. Monroe, USN, are members of the petroleum industry selected for this interesting experience: Larry O. Miller, business manager and secretary of California Oil World; E. A. Colligan, industrial relations department, Shell Oil Company; R. A. Keans, president of Keans, Springmann and Stipek, Inc., and current president of the Petroleum Club of Los Angeles; James C. Kelley, partner, Hillman-Kelley; Rear Admiral Jack P. Monroe, Pacific Missile Range; E. "Pick" McIver, California State President, Navy League of the United States; Earl M. Daniels, vice president of Hydril Company; Byron H. Barnes, president, Bettis Rubber Company; Edgar P. Lyons of Lyons, Bandel and Company, certified public accountants; and W. L. Coultas, treasury department, Shell Oil Company.

A tree is for me... and everyone else

We come across many a young fellow like this... in our job of exploring and drilling for oil.

As a visitor in the forest, Standard has a responsibility to protect wildlife and keep the wilderness fresh and green. And we accomplish this in several ways by working closely with fish and game and wildlife officials.

We steer around the feeding grounds, using soft-tired vehicles to preserve the natural ground cover. When wells are in, we assure new growth by reseeding grassland and planting young trees on the work area.

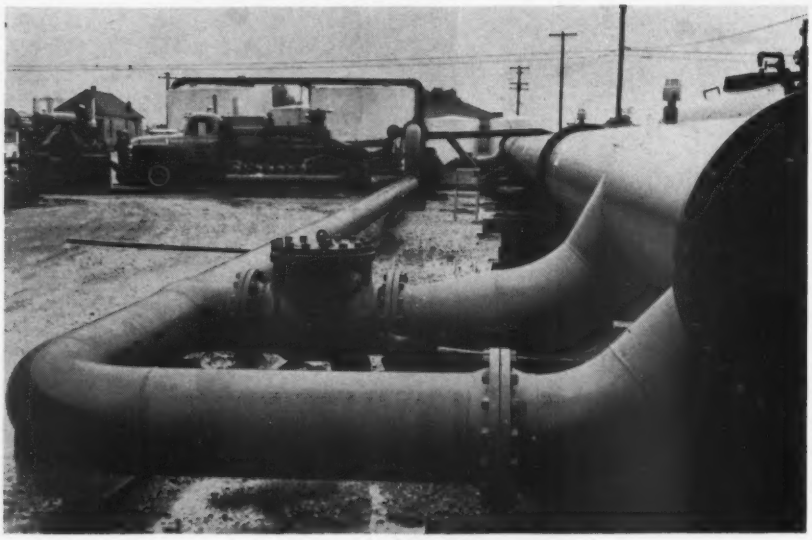
Water wells, essential to our drilling operations, also nourish thirsty plants and animals... and nesting and breeding ponds are built for wild fowl.

Exploring teams in helicopters keep sharp watch for fires, and on the ground our men with bulldozers and water trucks stand ready to help when fire strikes.

Wherever Standard taps new oil reserves to serve the nation—the forest and the animals who live there are protected.

planning ahead to serve you better

STANDARD OIL COMPANY OF CALIFORNIA



Piston Pipe Prover System for Libya

Large Piston Pipe Prover System to Libya

What is thought to be the largest Piston Pipe Prover System ever built has just been completed by J. A. Halpine & Son, Inc., of Tulsa. The Prover barrel consists of a 36-inch steel tube 160 feet long with a 16-inch manifold valve that directs the flow. The Prover has just undergone two days of testing with power pumps and crude oil being provided by a local oil well servicing firm.

The system will now be disassembled, crated and shipped to an American oil firm operating in Libya. Along with this will be a smaller one with a 20-inch piston tube and 105 feet in length.

Just as filling station gasoline pump meters are checked regularly for accuracy, the Halmor Meter Prover System enables an oil firm to check its pipe line meters.

Components of the system include a Halmor tachometer or pulse generator driven by the meter that generates 1,000 pulses per revolution of the meter shaft; a piston barrel and associated switching manifold, two Halmor piston switches, one electric counter, and finally the meters that require calibration.

The system has a prover valve linkage that allows the direction of the piston to be reversed with one coordinated motion and also allows the proving cycle to be made "automatic" by adding one electric operator to this linkage. The design permits checking valves individually for leakage, without their removal.

There are two Halmor piston signal switches on each prover barrel. As the piston passes the first one on its journeys back and forth in the barrel, it starts the counter reading pulses. The second one stops it. This provides pulses only during the pass through the calibrated section of the barrel.

Halmor Liquid-Meter Prover Systems permit positive-displacement meters to be proved within a few minutes and eliminate start and stop errors. The Halpine company manufactures models to handle meters of all sizes, at working pressures up to 1,200 psi, and flow rates to meet all requirements. Crude, products and LPG meters can all be proven with the Halmor Prover System.

Pacific Lighting Gas Supply Seeks Rate Increase

An increase of 2.7 cents per 1,000 cubic feet of gas sold at wholesale—beginning Jan. 1, 1962—was sought this month by Pacific Lighting Gas Supply Co. in an application filed with the California Public Utilities Commission.

The increase would have no immediate effect on retail customers, it was emphasized.

P.L.G.S., a Los Angeles-based natural gas storage and transmission utility, indicated in its application more than 70%—or 1.9 cents per 1,000 cubic feet, of the 2.7 cents asked—of its rate relief request is due to higher costs of California-produced natural gas. The company purchases this gas from various oil companies and transmits it to the gas distributing companies serving the southern California area—Southern California and Southern Counties Gas Companies.

Other items causing the company to ask for higher rates were shown in the application to be increased gas transmission and storage expenses, higher taxes, and the need to invest more than $1,740,000 to construct a 24-mile pipe line from Goleta to Gaviota in Santa Barbara County in order to bring to market gas produced from wells in waters offshore from Gaviota.

Without rate relief, the P.L.G.S. application to the P.U.C. indicated, the utility will be unable to maintain a satisfactory record of credit.

Standard of Calif. Raises Crude Price in Alaska

Standard Oil Company of California, Western Operations, Inc., recently announced an increase of 25 cents a barrel in the price it posts for crude oil produced from the Swanson River Field. Additional experience with greater production rates of this crude indicates that the higher price is appropriate.

Current production from the Swanson River Field is averaging about 20,000 barrels daily, with the oil now being shipped by tanker to refineries in California and the Pacific Northwest.

A spokesman for the company pointed out the crude price increase now effective will automatically raise the royalty income to the state and encourage further oil development, thus providing lasting benefit to the people of Alaska and their economy. Royalty income is earmarked principally for Alaskan schools and roads and for the state's general fund.

At the same time the company disclosed that plans for its new Alaska Refinery are progressing rapidly and stated it will be completed prior to mid-1963. At that time the company anticipates that Alaskan crude will have even a higher value which will reflect the use of this crude in Alaska to produce petroleum products for the requirements of the state.

the key to tomorrow's improved drilling costs

is in this laboratory glassware

improved drilling fluids for decreased drilling costs "don't just happen." Years of demanding and costly research are necessary. Thousands of compounds must be evaluated; and after laboratory synthesization, field tests must be carried on in hundreds of actual drilling operations. Today at Milwhite's laboratory our research teams are continuously working toward successful production of new drilling additives which hold the key to tomorrow's decreased drilling costs.

MILWHITE MUD SALES COMPANY

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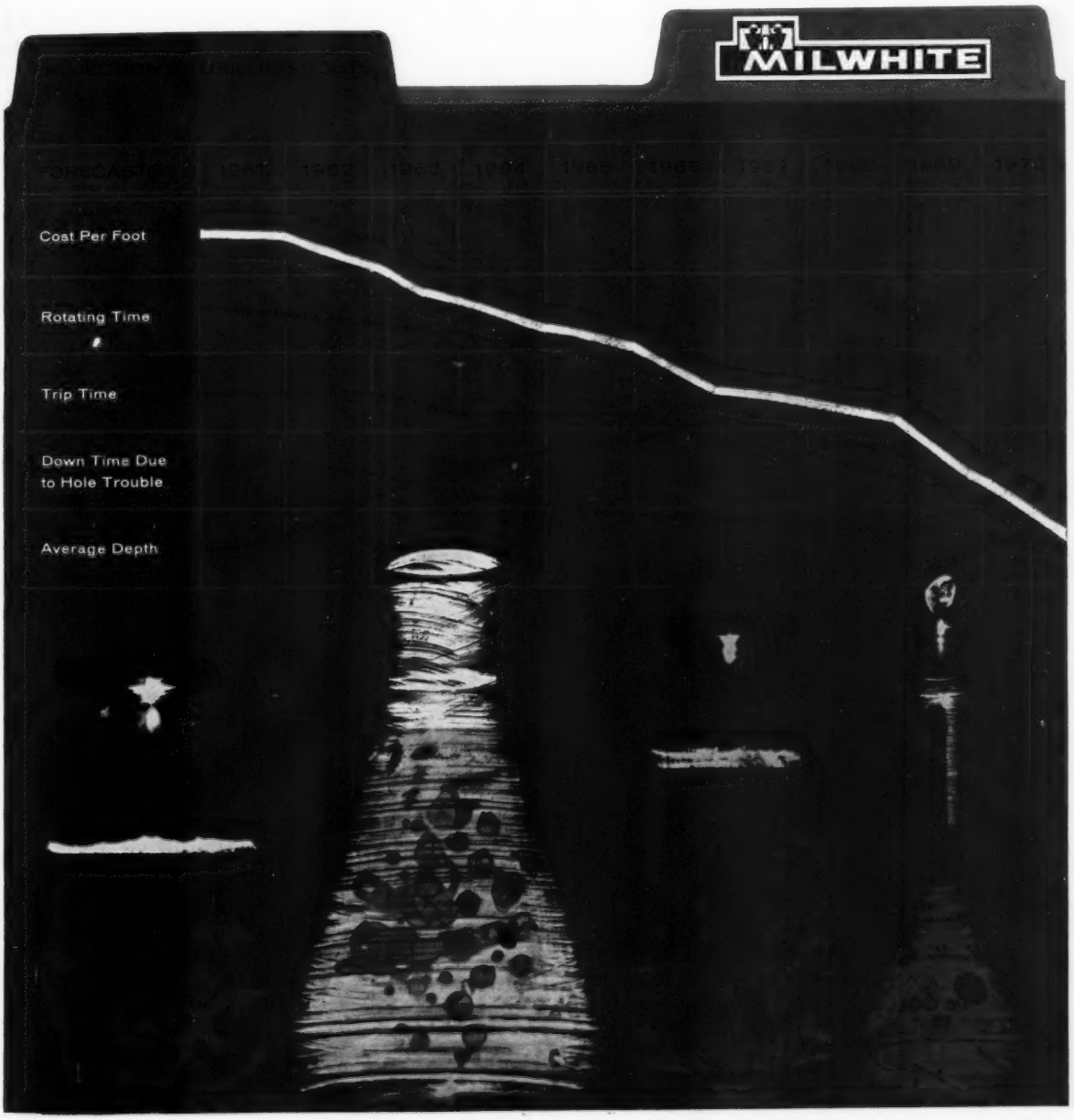

Max Birkhauser

Well Known Geologist Retires with 36 Years Service

Max Birkhauser of San Marino, specialist in arctic geology and collector of unique rocks and many friends, has retired from Shell Oil Company after 36 years of service.

In commemoration of this event, friends gathered recently from far and near to shower him with gifts and to share memories of days when together they hunted the elusive object of all petroleum geologists—petroleum.

As for the rocks, the Swiss born and educated geologist loaded them in suitcases, recalling as he did so the memories each brought back of days when he roamed to the frozen edges of North America in the never-ending search for oil.

"See these two?" he asked, holding out a pair of smooth, rounded specimens. "They came from the stomach of a dinosaur."

Among the many fossils, volcanic rocks and minerals is a group called "dreikanter"—a German word meaning "three edges." Smooth and oval-shaped, they get their edges from special conditions of wind and weather.

"These came from Alaska," Birkhauser said. "I had a lot more, but I've given most of them away now."

Shell management credits Birkhauser's 1952 trip to Alaska with leading to the company's decision to search for oil there.

From 1952 until 1959 he headed Shell's field work in the 49th state, aimed at mapping the surface geological structure in hopes it would give clues to possible oil finds.

"It's slow work," Birkhauser says. "You can only work about two or three months out of the year because of the weather, and most of the time transportation is provided only by airplanes."

Birkhauser joined Shell in Los Angeles in 1925 after receiving his Ph.D. degree in geology from the University of Basel in Switzerland.

He worked in most of the Pacific states during his career, and in 1941 he became the district geologist at Ventura. Two years later, Birkhauser began leading geological field parties through Northern Canada, from Alberta to Nova Scotia.

Since 1959 Birkhauser has been on the area exploration staff.

He and his wife reside in San Marino. They have two daughters, Mrs. Rosemarie Ellingson, Whittier, and Mrs. Ursula Bell, New Orleans. His retirement plans are not complete, but he did say:

"At first I don't intend to do anything. Later, I might try to find a little something to keep me busy. I had thought of going back to Switzerland, but I've changed my mind. My wife and I want to remain here, near the children."

S.E.G. Elects Officers

Dr. Lawrence Y. Faust, geophysical supervisor for Amerada Petroleum Corp., Tulsa, has been elected president of the Society of Exploration Geophysicists, it was announced in Dallas by Dr. J. P. Woods, current SEG president.

Woods is director of the geophysical laboratory of the Atlantic Refining Co., Dallas, Texas. Dr. Milton B. Dobrin, chief geophysicist for United Geophysical Corp., Pasadena, California, was elected first vice president in the society's annual election. Dr. Stanley H. Ward, consulting geophysicist and associate professor of mineral exploration at the University of California, will be vice president. R. Maxey Pinson, division geophysicist for Union Oil Co. of California, Midland, Texas, was elected secretary-treasurer, and R. B. Rice, supervisor of the physics department of the Ohio Oil Co., was elected editor.

Woods said the new officers will take over at the society's 31st annual international meeting to be held November 5-9 in Denver, Colo.

Nordon Corporation, Ltd., Stockholders Told of New Acquisitions at Meeting

Nordon Corporation, Ltd., announced three new California acquisitions for gas and oil exploration and revealed the company had a total income of $341,850.07 during the first four months of 1961 at the annual shareholders meeting held Friday, August 4, at the Statler-Hilton Hotel in Los Angeles.

Stockholders voted to increase the board of directors from four members to six.

Harry C. Long, Nordon's president, said Nordon has acquired 569 acres in the Millar area of Solano County, 2,200 acres in the prolific Raisin City field, Fresno County, and 320 additional acres to add to the 650 Nordon already has on the Helm Oil Field, also in Fresno County, where since last September the company brought in six straight oil wells.

Nordon will drill for gas in Solano County, and for oil in the other two locations, expecting to spud in at all three within approximately 90 days. Nordon will share with participants, and pay no costs if the wells are dry. If they come in, Nordon and the participants will divide profits 50-50, with the company paying completion costs.

The company will also drill a seventh well shortly on its 650-acre Helm lease block.

Stockholders were told Nordon had a net income of $31,387.09 after depletion, depreciation, amortization and expenses during the first four months of 1961, ending April 30. Same period last year the company had a net loss of $79,726. The firm has no federal income taxes to pay, due to depletion and the expensing of intangible well development costs for tax purposes.

Long said Nordon has taken 100% working interest in 18,000 acres in Wyoming and holds overriding royalties in about 11,000 acres in Wyoming, Utah and New Mexico.

During the first eight months of 1960, when the company was part of Aeco, production of Nordon oil amounted to 10,196 total barrels. In the last four months of 1960, after the firms separated, Nordon produced 69,960 barrels.

W. K. Mellon, retiring vice president of Petreco division of Petrolite Corporation, is shown here receiving a hand-engraved plaque-scroll at a recent celebration in his honor at Long Beach. On the left is Dr. R. W. Stenzel and to the right Frances Walsh, assistant secretary of Petreco, who made the presentation.

W. K. Mellon Retires After 42 Years with Petreco

W. K. Mellon, vice president of Petreco division of Petrolite Corporation at Long Beach, California, was honored recently at a retirement party in recognition of his 42 years service with Petreco.

More than 60 guests, including Dr. C. M. Blair, president, and W. J. Nuelle, vice president, of Petrolite Corporation, St. Louis, Missouri; L. C. Waterman, in charge of development at Houston, Texas; and Mr. and Mrs. Eugene Clarke from the London office were present.

Mellon, who has served as vice president in charge of sales and service for Petroleum Rectifying Company of California division since 1937, first joined the Petreco organization in 1919. A year later he was assigned to open the Houston, Texas branch, where he served as manager of the Texas-Gulf Coast District for ten years. In 1929 he was transferred to Los Angeles as California district manager.

Gifts from employees of Petreco included a desk and chair set, plus a hand-engraved plaque-scroll. These were presented to Mellon by William Woelflin and Frances Walsh. Dr. R. W. Stenzel of Petreco research and development department served as toastmaster.

Mr. Mellon resides in Pasadena, California.

UOP to Spend Over $1,900,000 on New Plants and Expansion

An appropriation of over $1,900,000 for new plants and expansion of existing facilities has been announced by M. P. Venema, board chairman of Universal Oil Products Company.

This announcement closely follows one made earlier of a $6½ million expenditure to be made for the same purpose.

In making known this latest appropriation, Venema indicated that about $1,160,000 would go into a new section of the company's catalyst manufacturing plant and for the expansion of a chemical plant, both at Shreveport, La. Over $500,000 will be used to expand UOP's IBM 7070 Computer System. Nearly $200,000 will go into new manufacturing equipment for the company's McCook, Iill., property.

This action, Venema pointed out, is another effort to improve Universal's manufacturing and general service capabilities and to place the company in a position to take advantage of immediate and long-range growth possibilities.

Union Oil of Calif. Makes Change In Canadian Setup

Union Oil Company of California is transferring all of its Canadian properties and assets to Union Oil Company of Canada Limited for 2,995,000 shares of the latter company, it was announced recently by Reese H. Taylor, chairman of the board of the two firms. This transaction will bring Union's holdings in its Canadian subsidiary to 3,000,000 shares.

"Three of the Canadian company's seven directors elected are leading Canadian businessmen," Mr. Taylor said. "Union of Canada expects to make a public offering of new shares for sale in Canada and to make application to list its shares on leading Canadian exchanges."

Directors of Union of Canada include: Harold S. Foley of Vancouver, B.C., vice president and director of the Bank of Montreal and director of Great West Life Assurance Company; David G. McConnell of Montreal, Quebec, vice president of St. Lawrence Sugar Refineries, Ltd., Montreal, and director of the Bank of Montreal; W. Culver Riley of Winnipeg, Man., president of The Canadian Fire Insurance Company, The Canadian Indemnity Company, United Canadian Shares Ltd.; Reese H. Taylor, chairman, Union Oil Company of California; Dudley Tower, president, Union Oil Company of California; Basil P. Kantzer, vice president, Union Oil Company of California; W. E. Farrar, former manager of lands, Union Oil Co.

Officers of Union of Canada are Reese H. Taylor, chairman; W. E. Farrar, president; R. R. Roethke, vice president; E. W. Scott, vice president; W. P. Taylor, secretary-treasurer; James I. Bell, comptroller. All officers except Mr. Reese H. Taylor will headquarter in Calgary.

Since Union of California began exploration in Canada in 1946 it has participated in the drilling of 175 exploratory wells, resulting in 22 new oil discoveries or step-out field extensions and 21 gas discoveries.

Assets to be transferred consist of producing oil and gas wells, production facilities, proved oil and gas lands, and exploratory leases and rights covering approximately 6,100,000 net acres in Western Canada and the Northwest Territories.

Petroleum LORE and LINGO

By RICHARD SNEDDON

Ladies Also Bowl

In the last edition of Lore & Lingo, which was a partial treatment of oilmen's diversions and relaxations, reference was made to the fact that bowling is a high-priority pastime in practically all departments of the industry, and it is only fair to note that the ladies of the derrick groves have also become enthusiastic addicts. They have their leagues, too, and contests of great variety, and it is somewhat disturbing to the mere male that many of them have become top performers. Although the active interest of the ladies first became manifest a comparatively short time ago, the fair ones, and even the unfair ones, have long exerted an indirect but potent influence on the game. For years secretaries generously applauded the trundling triumphs of their bosses and have thus encouraged them to great and fruitful striving. Wives patted the bulging biceps of their husbands and rhapsodized over stories of near perfect scores and mounting averages. And, it is to be remembered, of course, that almost without exception the mothers of the world's leading bowlers have been women.

How It Happened

Having been so long and so closely associated with the male kegler, and being naturally inquisitive, it was only to be expected that sooner or later milady would take a trip to the alley to see for herself what this kegling business was all about. So, after centuries of inaction on the sidelines, after long auditioning the exaggerated exploits of the muscular male, an inspired female suddenly jumped on the alley, started after the game with all the enthusiasm of a young interne who has just spotted an appendix, and in no time at all, or slightly less, another male sanctuary was despoiled. Today in the petroleum industry alone there are thousands of women bowlers, generally speaking, and those who are not generally speaking are so few it is hardly worthwhile to count them.

The Female Influence

To that prodigious wave of femininity, however, must go full credit for vastly improving the bowling business in all its phases. It has been responsible for the revamping of the old, poorly ventilated basement alleys, in which the players could scarcely see each other through a persistent pall of smoke, and the numbers having long since worn off the balls, they had to be identified by their shapes. These erstwhile rathskellers have been modernized, redecorated and refurnished, until now they are among the world's best cellars. The fine, air-conditioned, elegantly appointed and adequately equipped alleys that are to be found everywhere at the present time are a tribute to the greater discrimination and more refined taste of the keglerette. Women have more regard for health and comfort than men, and alley proprietors have more respect for women than to treat them like men.

Of Aptitudes

With regard to the bowling aptitude of the female, it must not be forgotten that the members of what is carelessly called "the weaker sex" are far from being weak in certain qualities. They are perhaps a trifle slower in their reflex actions than men, and for some unknown reason it takes most of them fifty years to reach the age of thirty-five. On the average, they are unquestionably weaker than men, in a physical way. But mentally—well, that is distinctly a matter of debate, and he would be a foolhardy male indeed who, without shinguards, would promote such a debate in mixed company. Perseverance and endurance are characteristics with which women have been liberally endowed, despite the screaming denials that the normal stag always hurls at any such contention. When a lady's mind is made up, it never comes undone. It is much more permanent than her permanent wave. Her complexion, under adverse conditions, may become smeary, but that resolution remains startlingly clear and well defined. When she makes up her mind, she has made a sacred compact with herself—and everyone knows how a woman can hang onto a compact.

Male Superiority Threatened

Proficiency in the bowling art has not been easy of attainment by the keglerette. At first she could scarcely lift the heavy ball off the rack, but she ignored the obvious scorn of the smeptic (male skeptic) and strove earnestly and assiduously until at last she evolved from an awkward tyro to an exasperating threat. Now, much to his chagrin, the man bowler not infrequently finds himself on the losing end of a mixed contest. The shame of this, the humiliation, are almost unbearable, particularly to these big he-men who have always thought that great strength was an asset in the game. These are the behemoths who usually knock half of the pins down with the ball and the other half with the jolt they give the building. To them the ladies have demonstrated that, in bowling as in most games, strength is not nearly as important as accuracy. It might be mentioned en passant (French inserted at no extra charge) that there are two general types of female addict: those who are bowling to correct the error of their weight, and those who already look well in shorts. It is also to be noted that women inherently possess curves, while men have to develop them by long, laborious practice.

Suitable Dress

There is no mandate as to how women shall attire themselves for a joust with the plastic pins, but some attention to dress will not only add appreciably to the comfort of the

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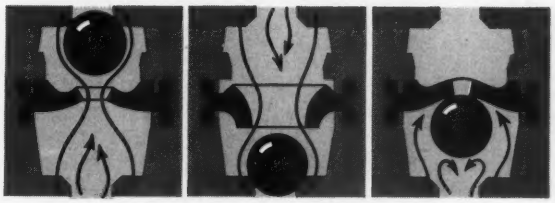

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player, but also to the number of male spectators in the gallery. Female habiliment, of course, has no relation to the purpose to which it is applied, but it must be remembered that the apparent purpose is rarely the real one anyway. Her ladyship may wear furs on the hottest summer day and a topless dress on the coldest winter night, but until the fundamental objective of the assault is known, criticism is superfluous. In the same team matches, ladies have been observed in bathing suits, slacks, sarongs, housecoats and pajamas, from which it may be deduced that anything permitting freedom of movement for the player or freedom of vision for the spectator is satisfactory.

In Particular

Compressing and restraining garments should be kept cool in a dry place until the game is over. Dresses should be worn an inch or two shorter and a month or two longer. (It is interesting that in Scotland a short skirt is a girl who goes to the bowling alley with so little money that her boy friend has to pay for his own game.) The choice of stockings, incidentally, is a ticklish problem. Slipcovers for the nether limbs are subject to exceptional stresses and strains during a bowling spree. They may develop more runs than the leading batter in the National League. The seams may move over to a new latitude, causing the good-looking boy just behind to move over to another alley. All of which boils down to this: From considerations of comfort and economy, cotton bobby socks may fill the bill, but the lady who wants to do an eye-filling job will still wear nylons.

Foot Covering

Women's bowling shoes are very similar to men's, but don't cover nearly so much acreage. They have low heels or none at all, and may be acquired in assorted colors to match the rest of the ensemble, if any. Basically, of course, their function is to give proper footing, so that beauty must, to some extent, be sacrificed for safety. Shoes were the inspiration for a lovely piece of iambic pentameter, or something, composed some time ago by a poetic babysitter. It goes roughly like this:

"Shush little baby! Close your
bright eyes,
Mamma's gone out to roll for
a prize.
While you and I have a nice
little snooze,
Mamma will try out her new
bowling shoes.
Shush little baby! Don't cry
any more.
Mamma's come home, and boy,
is she sore.
Better pipe down, little baby of
mine.
The best mom could do was 109."

How Men Are Affected

The feminine version has had a pronounced effect on the attitudes and behavior of the men bowlers. So expert have the ladies become that many have already made perfect scores, and thousands roll consistently in the neighborhood of 200, which is mighty good shooting. Most men are gracious enough to applaud a good performance, but some of them have abandoned the alleys for all time and are now sulking in nearby poolrooms. It is the real dyed-in-the-wool male kegler who is pleased at the female incursion, for now that his life companion or prospective life companion understands the game and its accoutrements, she is not likely to chill his spine by using his new bowling ball to crack walnuts. Whatever the men may think of the situation makes little difference, for the ladies are in the alleys to stay. There is already a Women's International Bowling Congress, and mixed kegling is now as common at bowling congresses as mixed legislators in the Congress of the United States.

Keeping in Shape

High society has clasped the bowling ball to its fastidious bosom, and the game has thus been given the final seal of social approval. Indeed, an important part of the training of an incipient debutante, today's model, is a lesson or two in the trundling art. And regardless of her other qualifications, the lass who is not fired with an ambition to roll three hundred is not likely to be enrolled with the four hundred. Mark this important consideration, also: There is no better way to acquire curves in the right place. Many a man has fallen in love with his frau all over again after she has spent a month or two in the alleys rounding into shape. As one lady, now in reduced circumstances, puts it, "Bowling simply takes one's breadth away!"

The Home Suffers

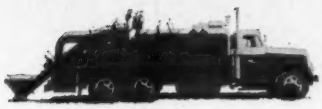
The mass female addiction to bowling has naturally been coincidental with a wholesale desertion of the kitchen, and has consequently had a demoralizing effect on the vaunted peace and tranquillity of American domestic life. It has changed the entire tenor of marital behavior and is definitely instituting a new era in human relationships. For example, it is now a gross breach of bowling etiquette to do the dinner dishes at night. If you have a bowling date, and if you are a bowler you always have a bowling date, you must leave the dishes in the sink and sandblast them in the morning. The fact that this treatment removes the pattern may explain the prevailing fad for patternless china, but then again, of course, it may not.

Anatomical Effect

The ladies themselves have been markedly changed by their new interest. Once they were content to sit at home in the evening darning socks. Now they frequent the alleys and darn the entire universe every time they miss a spare. Once throwing a hook into the pocket was an unforgivable offense; now it is an accomplishment. The game, although strenuous, doesn't tend to overdevelopment in any specific part of the anatomy, except the bowling arm. Indeed, after a girl has swung a sixteen-pound ball on the end of one arm for a month or two, it is no longer necessary to pass her the butter. This, of course, obviates the need of table manners and releases valuable time for more important pursuits, such as dates, study, and dates.

Now an Obsession

Men usually bowl after work, but women work between games. Bowling becomes the most important thing in their lives. A Bakersfield Desk and Derrick girl went with the same boy for six years and then threw him over because he missed the headpin twice in a single match. The game is an excellent diversion for married couples. Many such people have no children, no pets, in fact no encumbrances at all, except each other. They can thus visit the alleys together and do their disagreeing publicly, merely going home to snatch a rest between arguments;



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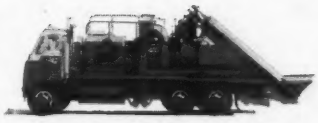

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that is, assuming the arguments have any between. Alley proprietors are debating the advisability of setting up light housekeeping rooms on their premises for bowling couples, but it is doubtful if the scheme can be successful, since no union can flourish where there are strikes all the time.

From Alleys to Palaces

There is little doubt that the ladies have invested the kegle palaces with a new glamor—a lure that the mere male of this age is no more able to resist than were his forbears in all the bygone ages. Attired in bright costumes of infinite variety, inconsequential coverage and uncertain utility, the dear things present a pretty picture as they throw the plastic sphere up the alley and then try to guide it with subconscious motions of their—well—with subconscious motions. Men, for the most part, are accepting the female infiltration with equanimity, although it has placed them in a distinctly precarious position. A woman no longer judges a man by his business acumen but by his bowling average, and it is reported on good authority that a production foreman was recently jilted by his secretary because of his awkward swing. Had he been one of your bad-tempered men, this experience might have hardened his arteries atrociously. But he wasn't! As a matter of fact, he was a nice, mild-mannered chap, so he just gnashed his teeth a little bit and ordered the girl off his lap, after which he felt fine.

Growing Interest

With the ladies swarming to the alleys in ever-increasing numbers, everything points to a continued increase in female participation. There is little the men can do about it, and there is little they should try to do about it, for by and large the feminine touch has definitely sweetened the whole business—esthetically and financially. The best thing the trundling male can do under the circumstances is nothing, and the best thing the non-trundling male can do is to begin trundling immediately; otherwise he may, one of these fine days, find himself playing second fiddle in Hymen's orchestra under the direction of a homely little guy with a high bowling average.

The Crystal Ball

Looking into the future, it is difficult to say what might be expected in the kegling pastime during the next ten years. If the average continues to improve as it has done in the past few decades, it might become necessary to reduce the size of the ball, or increase the space between pins. The appurtenances of the bowling palaces will undoubtedly follow the prevailing trend and become more lavish as the years go by. Heavy drapes will separate the lanes and absorb some of the racket, plush backdrops will catch the falling pins and absorb some more of it. Spectators will watch from soundproof chambers while reclining on divans with double-decked upholstery. Cute lassies in natty uniforms will dispense refreshments to them and players alike and might even give out an occasional phone number. In conditioning rooms, masseurs and masseuses will squeegee the members of their respective sexes into the physical pink. The entire shebang will eventually assume all the lush aspects of a top-hole country club and may possibly wind up by assessing an uncover charge to defray the cost of uncovering the lanes.

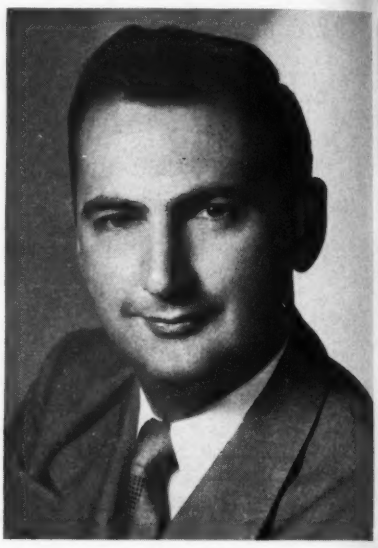
The Bowling Break

Whatever future trends may be, it is reasonably certain that interest will mount steadily, but since interest rates are mounting everywhere, this is no great cause for alarm. One thing should be remembered: bowling is a stable, well-founded game that has expanded in a perfectly normal way over many years. It is enjoying a real boom at the moment and its continued growth is assured, for its ascendency to a high place in public favor has been rational and orderly and it will never explode in the public face like miniature golf or bubble gum. I have a strange feeling, indeed, that it won't be long until the oil industry establishes a bowling break to tack on to the coffee break. Then all we shall have to do is substitute the five-day week end for the five-day week and we'll have it made.

Frost Engineering New Representative For Two Companies

Frost Engineering Company has announced its appointment as representative for Young Radiator Company of Racine, Wisconsin, and Amot Controls Corporation of Richmond, California. These two companies were formerly represented by Flournoy & Everett.

The Young Company, which has



Vernon Frost

pioneered in heat transfer products since 1927, makes horizontal coolers and condensers, evaporative coolers, jacket water coolers, shell and tube heat exchangers and air-cooled oil coolers, and the Frost Company will service, for it, the hydraulics, aircraft and missile industries of Southern California, general industry, the oil and gas industry, including pipe line and petrochemical fields.

Amot Controls Corporation turns out safety controls, thermostats, valves and switches. W. P. "Woody" Wood is associated with Frost and will serve the marine, industrial, oil and gas construction fields with the full line of Amot controls.

Frost Engineering Service Company is located at 7537 Marbrisa Avenue, P. O. Box 767, Huntington Park, California, where John Crawley is office manager and engineer. The northern office is at 383 Fourth Street, San Francisco 7, California. Donald L. Bracken is district manager there.

NEW MEMBERS — Standing between Ritual Master Taylor Bannerman of Technical Oil Tool Corp. (right) and Tom Martin, Assistant, of Petroquip, are two new members (left to right), E. Nelmes Thomas of Chiksan Company and Bruce J. Cordary of Servco Company, after induction into the Los Angeles Chapter of Nomads, August 9, 1961.

AADOC Meeting Sept. 6, Statler-Hilton, Los Angeles

Norman Haney of Haney & Williams Drilling Company, chairman of the California regional chapter of the AADOC, has announced that a dinner meeting will be held at 7:00 p.m. on September 6 at the Los Angeles Petroleum Club, Statler-Hilton Hotel, with a cocktail hour preceding the dinner.

Guest speakers will be C. L. Vickers, vice president of finance, Continental-Emsco Company, Dallas, who will speak on "Drilling Contractors' Financial Problems," and Jack Skeehan, drilling contractor consultant. Skeehan will discuss his "Contractor Survival Kit."

INTERNATIONAL GUESTS at the August 9, 1961, meeting of the Los Angeles Chapter of Nomads. Left to right (front row) Loren E. Gray of I.P.C. from Iraq; John L. Alexander of I.P.C. from Iraq; J. A. Wilkinson of Camdrill from Libya; James R. Dorrance of Caltex Pacific Oil Co. from Indonesia; Mercer Martin of Basrah Pet. Co. from Iraq; (back row) Tom Mathai of Oil & Natural Gas Com. from India; Al Dysart of Aminoil from Kuwait; Karl Mercer of Servco Company, Nomad from Paris; Hajime Fujita of Japex from Japan.

Vickers has been with Continental-Emsco for the past 31 years in the credit and financial department.

At 4 p.m. on the same day, and at the same location, regional directors and local officers of the AAODC will meet to elect officers for the coming year.

Annual Meeting Plans Being Finalized by AAODC

Plans for the Annual AAODC Meeting, including the program and other functions, are being finalized. The meeting will be held on October 4, 5 and 6, at the Rice Hotel, Houston.

The program committee (Earle C. Hellums, chairman) has received firm acceptances from all speakers.

A new feature will be an open forum panel discussion, at which safety engineers will be available for answering any and all questions regarding ways contractors can operate and improve accident prevention programs. This feature has a goal of reducing insurance costs by improving safety records of individual contractors and the oil well drilling-servicing industry as a whole.

Plans for the hospitality hour, banquet, ladies' entertainment, etc., are in the final completion stages by a group of committees serving under Frank J. Whitley, general arrangements chairman.

"Red" Adair Guest Speaker S. F. Desk and Derrick Club

Paul N. (Red) Adair was the guest speaker at the dinner meeting of the Desk and Derrick Club of San Francisco on August 11 at the Domino Club.

E. O. Matthews and Asgar Hansen, who joined Adair when he formed his own company in 1959, also attended the meeting.

The Red Adair Oil Well Fires and Blowouts Control Company is the only one of its type in the free world. In his firefighting career Red has either capped or helped cap more than 400 wild wells in almost every corner of the world.

C.N.G.A. Fall Meeting Oct. 12-13 in Long Beach

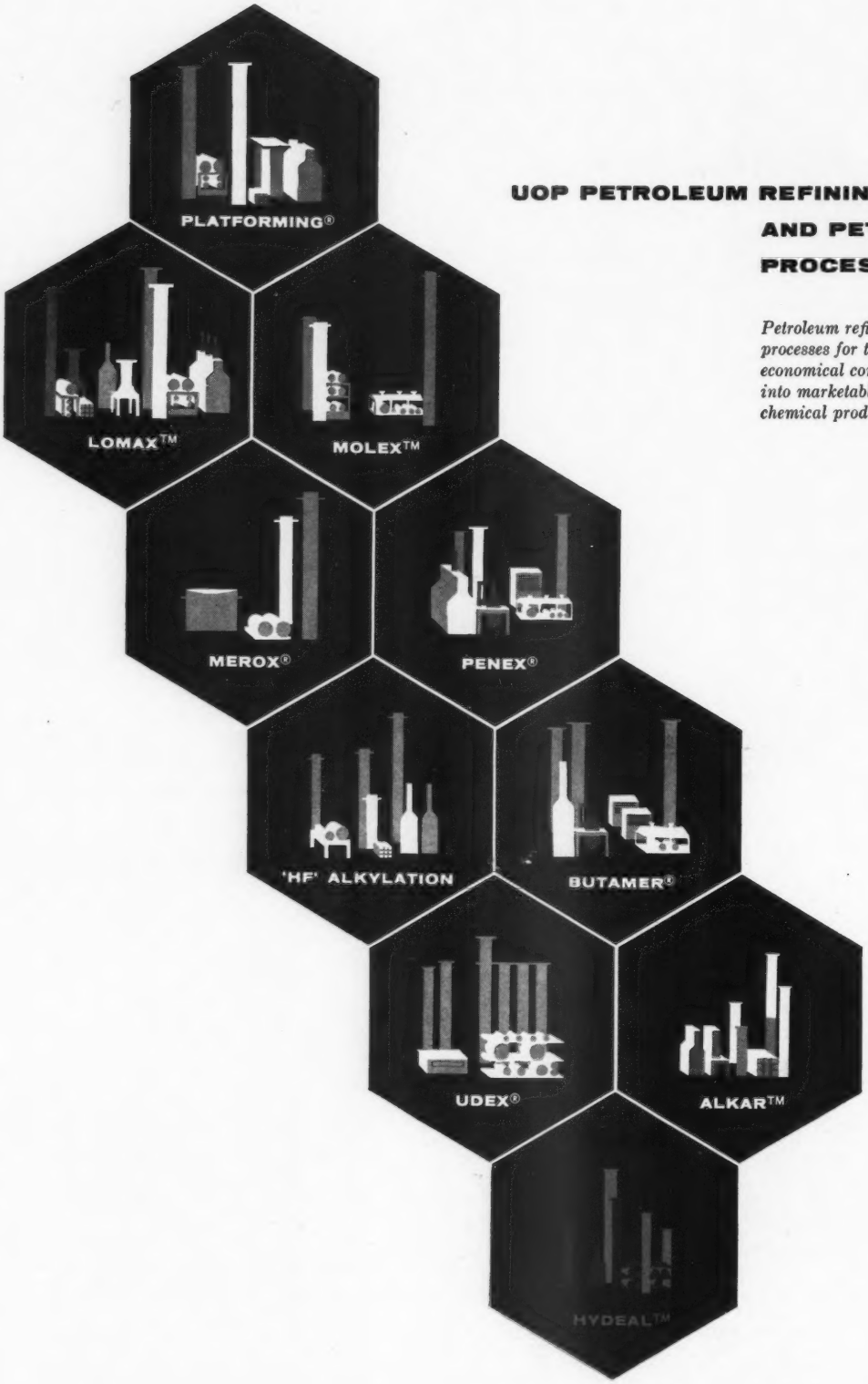
The Lafayette Hotel in Long Beach will be the scene October 12-13 of the Thirty-Sixth Annual Fall Meeting of the California Natural Gasoline Association, an association affiliated with the West Coast hydrocarbon processing industries.

Joseph Lovewell, Stanford Research Institute, speaking on "Environmental Change and Corporate Strategy," will address the Management Luncheon on October 12.

The general session on October 13 will hear Hon. Roger Alton Pfaff, presiding judge of Consolidated Domestic Relations and Conciliation Courts in Los Angeles County, and H. C. McClellan, president, Old Colony Paint & Chemical Co., discussing the theme of the meeting, "The Challenging Sixties." C. M. Sandland, C. F. Braun & Co., general chairman of the meeting, will preside at this session.

Each day's program will present forum discussions on matters of pertinent interest to the hydrocarbon industries both operational and technical in scope. This meeting will bring together specialists from the West Coast in refining, petrochemicals, LPG, natural gas and natural gasoline.

D. J. Bergeron of Jet-Lube, Inc. (right), receives the President's Trophy for Nomads' low gross score at the Whing Ding Golf Tournament of the Los Angeles Chapter of Nomads on July 14, 1961. Presenting the trophy is Lee Laird of Ladish Pacific Division, program chairman, in the absence of Charles King of Baker Oil Tools, Inc., Chapter president, who was in France at the time.



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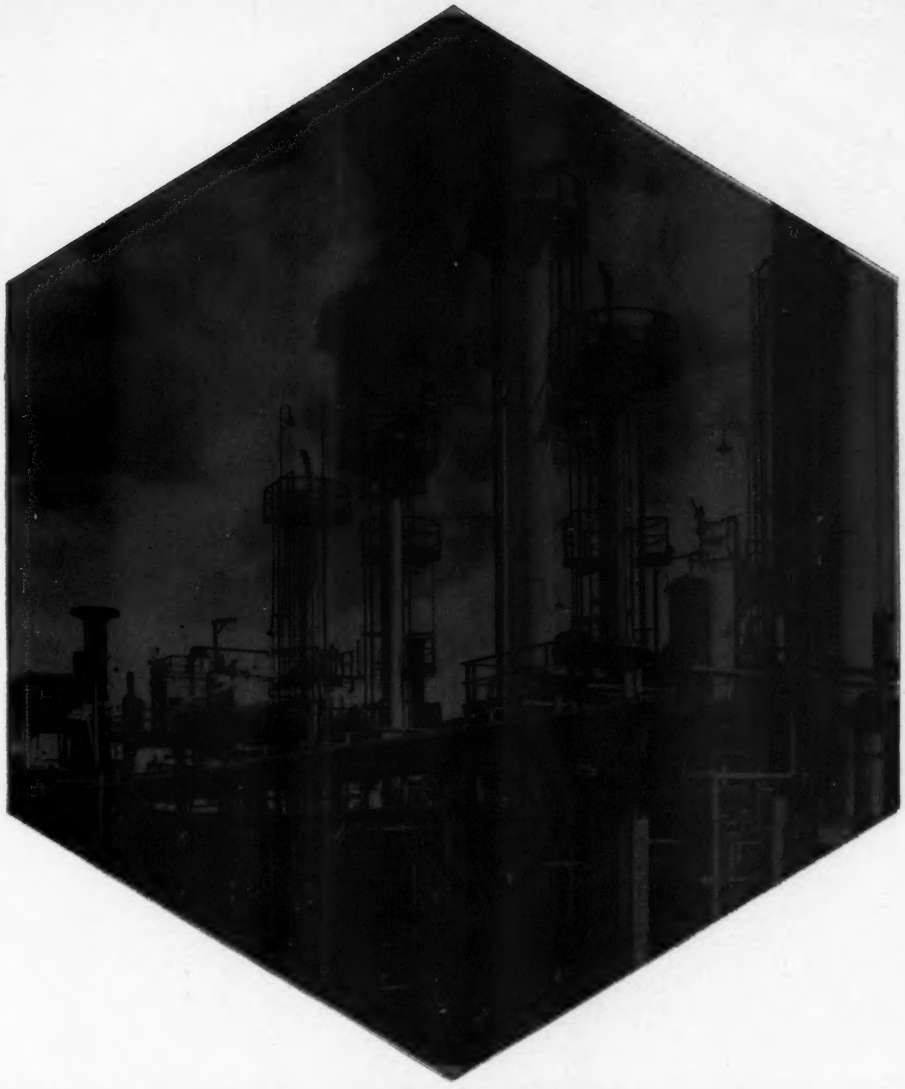
Petroleum refining and petrochemical processes for the efficient and economical conversion of petroleum into marketable fuel and chemical products.



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Hydeal serves a unique marketing need in petrochemical processing. Toluene, xylenes and heavier aromatic mixtures can now be efficiently and profitably converted to higher valued nitration-grade benzene. Benzene market demands by 1968 are expected to grow to more than three times those of toluene and xylenes. Hydeal is ideally suited to meeting this projected growth in benzene demand.

Exceptionally efficient, the Hydeal process, jointly developed by Ashland Oil & Refining Company and UOP, provides excellent yields and operates at economical utility requirements. Benzene yield from the hydrodealkylation of toluene is over 90% of theoretical, while that from xylenes is over 85% of theoretical. Moderate in capital costs, Hydeal offers refiners a ready use for excess toluene and xylenes.

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Personalities IN THE NEWS

Joe E. Penick

Mobil Oil Co. Switches Refinery Managers

Joe E. Penick has been appointed manager of the Torrance refinery of Mobil Oil Company, succeeding **A. E. Thompson,** who has just been named manager of Mobil's refinery at Augusta, Kansas.

Penick had been manager of the Augusta refinery since 1959. He joined Mobil as a research assistant in 1942 and subsequently held research and engineering positions with Mobil at Dallas, Tex., Augusta and Paulsboro, N.J. He was operations supervisor at Mobil headquarters in New York before being appointed manager of the company's refinery at East Providence, R.I., a post he held for two years before going to Augusta refinery as manager. Penick is a graduate in chemical engineering from Oklahoma University.

Thompson has been manager of the Torrance refinery since 1949. He joined the company as a junior inspector in 1934 after being graduated as a chemical engineer from the California Institute of Technology. He was appointed senior chemical engineer in 1940, refinery engineer in 1943 and was assistant manager at Torrance from 1945 to 1949.

Active in the community affairs of Torrance, Thompson is a past president of the Chamber of Commerce and Rotary Club. He also has been prominent in the activities of the Community Chest, Red Cross, YMCA and Boy Scouts.

A. E. Thompson

A. E. Stevens

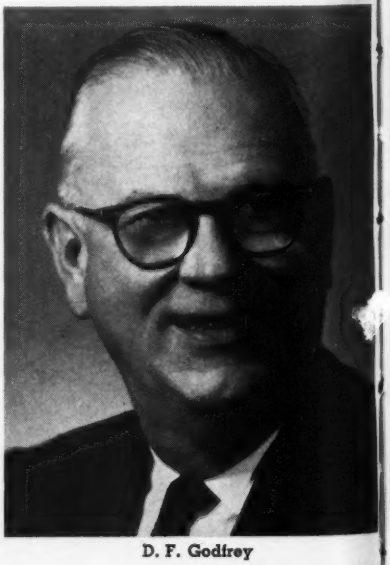
Godfrey Transferred to Standard; Stevens New Signal President

D. F. Godfrey, president of Signal Oil Company, has been transferred to the parent Standard Oil Company of California as a member of corporation management in association with **G. J. O'Brien,** vice president for governmental relations.

Godfrey is succeeded as Signal's president by **A. E. Stevens,** previously assistant general manager of wholesale in Western Operations' marketing department.

Godfrey, president of Signal Oil since 1947, joined Standard in 1919 and has been in marketing activities throughout his career. Prominent in Southern California industry and civic groups, Godfrey is a member of the California, Wilshire Country, Jonathan, Petroleum and Press Clubs in Los Angeles.

Stevens joined the company in 1934 and has held supervisory and management positions in Standard's sales organization throughout California and in the Pacific Northwest.



D. F. Godfrey

Hawaii bids "Aloha" and a warm welcome to a new star in the Islands... Texaco. Shown here receiving a traditional greeting are the first of the Islands' new Texaco Dealers and their able assistants. Only Texaco, at the sign of the big red star with the green T, serves motorists in all 50 states of the U. S. A. Texaco, pioneer and one of the leading producers, refiners and marketers of petroleum, takes pride in serving Hawaii, and continuing its capital investments in the economies, the people and the progress of the Free World.

TEXACO: SYMBOL OF WORLD-WIDE PROGRESS THROUGH PETROLEUM

J. T. Higgins

N. T. Bogart

Standard Oil Co. of Calif. Announces Changes in Three Top Management Positions

Standard Oil Company of California announced three major changes in top management of its refining and manufacturing activities.

J. T. Higgins assumes a new assignment in the management of the corporation in association with **G. A. Davidson,** vice president and director and chief functional officer in charge of manufacturing, engineering and research.

N. T. Bogart will succeed Higgins as vice president and general manager of the manufacturing department of Standard's Western Operations, Inc., and **P. N. Johnson,** previously vice president, California Oil Company, Western Division, succeeds Bogart as assistant general manager of Western Operations' manufacturing department.

All three executives have extensive experience in the company's manufacturing organization. Higgins, a Stanford graduate, joined Standard in 1929 and has held supervisory and management positions at the company's refineries at Richmond and El Segundo in California, and at Salt Lake City.

Bogart, who holds degrees from U.S.C. and M.I.T., likewise has served in the management of the two California refineries. Johnson, a Michigan graduate, held positions at El Segundo and recently has been president of Salt Lake Refining and Salt Lake Pipe Line Companies, part of the California Oil Company subsidiary organization.

P. N. Johnson

Buttes Gas & Oil Co. Elects Graham B. Moody Chairman

Graham B. Moody, Berkeley consulting petroleum geologist and engineer, has been elected chairman of the board of directors of Buttes Gas and Oil Company and a member of the executive committee, according to an announcement by the company's board of directors. **Jeff Watts,** general manager, was named president and elected to the board. Watts succeeds **M. J. van Loben Sels,** who resigned to return to civil engineering practice, but will remain on the Buttes board.

Moody is former reserves engineer for Standard Oil Company of California and past president of the American Association of Petroleum Geologists. Watts joined Buttes in November, 1959, as chief petroleum engineer and assistant general manager. He was named general manager in May, 1960, and will continue as executive officer.

G. B. Stone Named as Executive of Personnel

The appointment of **Gregory B. Stone** as superintendent of personnel at the Oleum Refinery of the Union Oil Company has been announced by **Walter T. Jameson,** refinery manager.

Stone joined the Union Oil Company at Oleum in 1926. He has held a number of supervisory assignments, including his most recent position as assistant superintendent of personnel.

Gregory B. Stone

He is well known in management training organizations and is a past president of the California Chapter of the American Society of Training Directors.

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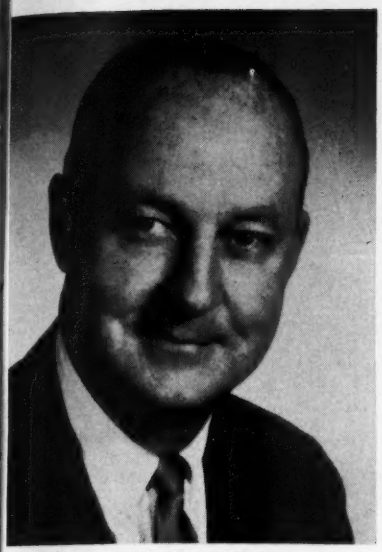
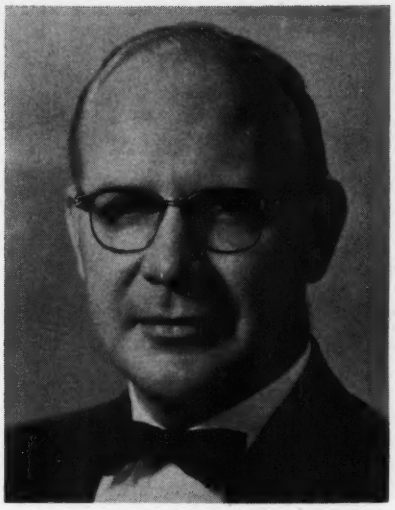


Walter G. Hargesheimer



Robert K. Hughes

Walter G. Hargesheimer and Robert K. Hughes Promoted

Walter G. Hargesheimer, formerly manager of the Kilsby-Tubesupply Seattle Division, has been named general manager of the company which has its headquarters in Los Angeles.

Hargesheimer is a graduate of the University of Minnesota with a degree in education and science. Before entering the business world, his career was teaching athletics. He was at one time backfield coach for the University of Southern California.

He began to work for Kilsby-Tubesupply in 1955 as a Los Angeles sales representative and was promoted to manager in Seattle in 1958. As general manager of Kilsby-Tubesupply, he will head an organization which supplies industry with all types of metallic tubing ranging in size from that of a hypodermic needle to tubing large enough to roll a basketball through.

Robert K. Hughes, who has been assistant sales manager in Los Angeles for Kilsby-Tubesupply, has been named manager of that company's Northwestern operations with headquarters at 2931 East Marginal Way, Seattle, Washington.

Hughes graduated from the University of Buffalo with a degree in business administration. During World War II he was with the U. S. Army in Egypt, Africa and Italy.

He began his career with Kilsby-Tubesupply in 1955 as a salesman in Los Angeles. In 1958 he was promoted to manager of steel tube sales, and in 1960 to assistant sales manager.

Magcobar Promotes Robert W. Ruhe, Jr.

Promotion of **Robert W. Ruhe, Jr.,** from staff service engineer to chief service engineer at Magnet Cove Barium Corporation (Magcobar), Houston, effective August 15, was announced by **I. W. Hoskins,** senior vice president of marketing.

In his new position, Ruhe will supervise Magcobar's staff engineering group and will be responsible for the assignments of field engineers and for their continuous technical training; the continuous dissemination of information of drilling mud developments, to customers and to field personnel; coordination of field sales and engineering activities, and for special engineering services for the customers of Magcobar's oil well drilling mud products. He succeeds **James N. McCaskill,** resigned.

Signal Names Heath Executive V.P., Clary Senior V.P.

R. W. Heath has been named executive vice president of Signal Oil and Gas Company, it was announced recently by **Russell H. Green,** president.

Having joined Signal as an engineer in 1923, Heath had been vice president in charge of the company's gas department and a director since 1948.

Heath is vice president of the Natural Gasoline Association of America, and is a past president of the California Natural Gas Association.

At the same time Green announced that **Harold F. Clary** has been appointed senior vice president.

Clary, who joined Signal as an attorney in 1925, had been vice president in charge of the legal department and a director since 1954, and general counsel since 1953.

Durland E. Clark Advanced By Shell Oil Co.

Durland E. Clark has been named assistant to the vice president of the Pacific Coast exploration and production area of Shell Oil Company.

He succeeds **P. A. Dennie,** who became production manager in Shell's Denver Area.

Clark joined Shell in 1948 as a title examiner in Los Angeles, moved to Sacramento in 1951 as a landman and was named land manager for the San Joaquin Division in Bakersfield in 1954. He has been an area land agent since 1958.

Clark holds a bachelor of science degree in electrical engineering from

Durland E. Clark

the Virginia Military Institute and a law degree from the University of Virginia. He recently was elected president of the Los Angeles Association of Petroleum Landmen for the 1961-62 year.

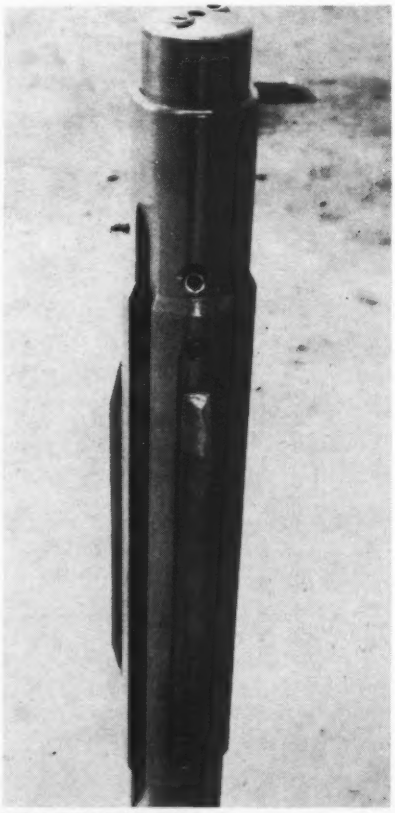
He and his wife, Patricia, have two children, Patrice, 9, and Hilary, 6.

New Dowell Tool Reduces Scale Removal Time

A new tool cuts to one-third or less the time required to remove scale from old wells in California.

It has required about three days of rig time to go in and clean out these wells by drilling and washing through of tools, followed by acid cleanup to remove any scale formed on the liner screen itself and on the outside of the liner in the formation. Now required time for the whole cleanout procedure can be limited to one day or less.

The new tool is a casing scraper, adapted by Dowell engineers at Bakersfield to jet acid at high pressure onto the corroded liner.



NEW CLEANING TOOL, adapted from casing scraper, uses jet-cleaning principle to remove scale from old wells in California in one-third the time previously required. Note two jets on the bottom of the tool, which is shown in an inverted position.

As shown in the accompanying photograph, there are two nozzles on the bottom of the tool, positioned so that the jet streams cross approximately six inches below the jets. There are three other jet nozzles on the body of the tool. They are set to direct fluid down at a 45° angle. Acid strengths of 3 to 5% are used in the cleanup. A pressure drop of about 800 psi or higher is held across the jets.

The tool is run on the bottom of the tubing string. Tubing is lowered at about 3 feet per minute.

Typical job. A recent job called for cleaning a 5½" 80-mesh liner set in the interval 3,068 to 3,131 feet. The liner was nearly plugged, since the scale buildup supported the entire weight of the tubing string.

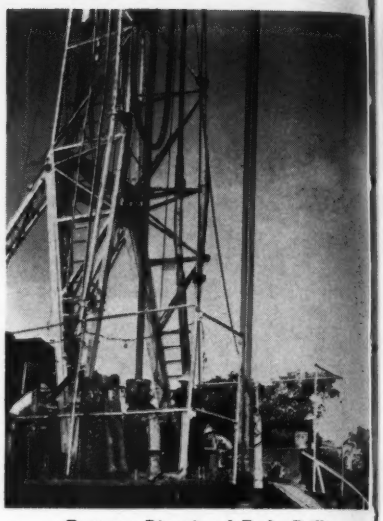
The cleaning solution, 10,000 gallons of 3% acid, was mixed on location. It was injected at a rate of 4 bbl. per minute, with annulus open and well circulating. When the acid was on bottom, tubing was lowered at the rate of 3 feet per minute. All 63 feet of the liner was washed to bottom. The well went on vacuum when approximately 20 feet of liner had been washed clean.

Production was increased 68% by the cleaning operation.

Eastman Oil Well Survey Co. Turbo-Drill Tests Successful

Eastman Oil Well Survey Company, Denver, announces that it has completed a successful run of a directional turbo-drill in the United States. Based on the experience of its subsidiary in Germany, and extensive research, Eastman has developed a technique for using the turbo-drill controlled by a specially designed deflection method.

The field tests now in progress are a part of an evaluation program by Eastman to determine the economics of using the turbo-drill for directional drilling as applied to domestic drilling conditions.

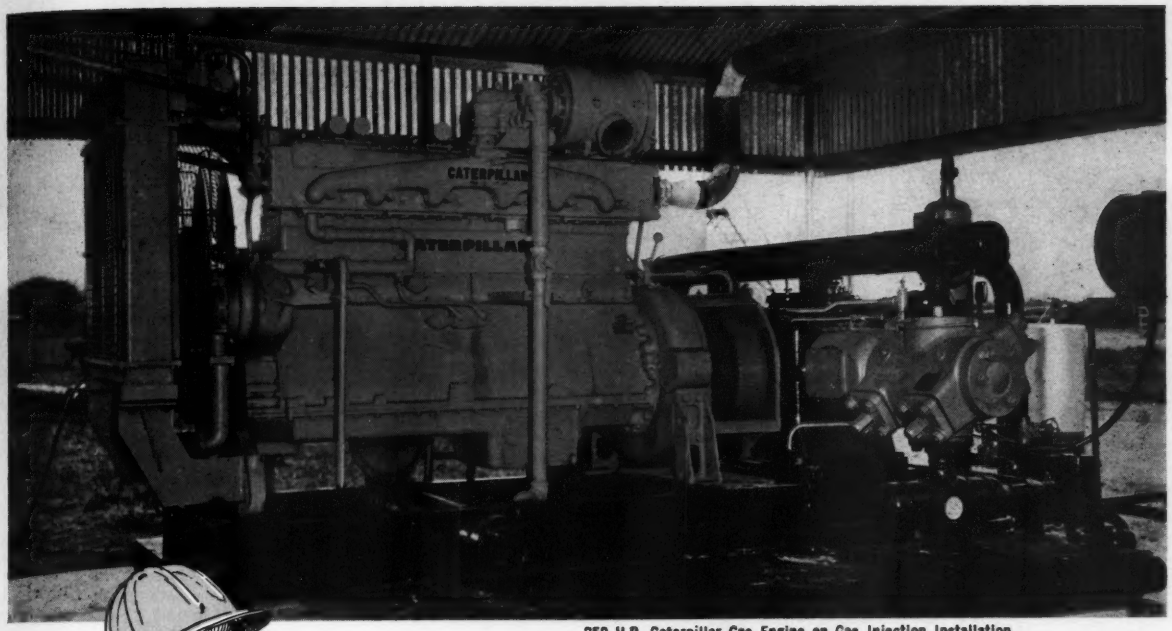


Eastman Directional Turbo-Drill

The test was conducted in connection with a planned directional program on a well in Texas. The total dogleg of 3¾° was equally distributed over the entire run of 40 feet. The tool was oriented by conventional methods. A picture taken in the middle of the run showed positive control of the turbo-drill and the run was continued to successful completion. Drilling was both rapid and accurate.

After the course of the well was established with the turbo-drill, a full gauge angle building hookup was run without the necessity of a hole opening trip.

According to the company, indications are that its technique of directional turbo-drilling will have the advantages of introducing curvature uniformly to the hole instead of a sharp dogleg; use of full gauge bit which eliminates hole opening; length of run can be such that normal amount of drill collars can be used on following run; and that it can be used to clean out bridges or drill out fill, eliminating hole conditioning runs frequently required for other deflection tools.



250 H.P. Caterpillar Gas Engine on Gas Injection Installation.

COMPARE THESE Operating Costs

*"**SECO** leased gas engines opened our eyes to new operating economies!"*

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FUEL GAS @ 30¢/MCF & ELECTRICITY @ 1¢/KWH

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15	131,400	$ 1,314	$ 1,090	$ 840
20	175,200	1,752	1,280	1,030
30	262,800	2,628	1,790	1,390
40	350,400	3,504	2,240	1,610
50	438,000	4,380	2,540	1,890
100	876,000	8,760	4,650	3,240
200	1,752,000	17,520	9,300	6,500
300	2,628,000	26,280	13,900	9,450
400	3,504,000	35,040	17,500	12,600
500	4,380,000	43,800	21,000	15,800

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Richfield Oil Corp. Presents Memorial to Alaska

In commemoration of the completion of Alaska's first commercially successful oil well, and the birth of a new major industry in the

state, a specially designed memorial was presented to the state recently by Richfield Oil Corporation.

Accepted for Alaska by Gov. Egan during ceremonies in Juneau, the memorial is prominently located in the State Capitol Building.

Terming the discovery of oil in the state "a milestone in Alaska's history in which Richfield has had a leading role," the Governor declared that "the revenue which has accrued to our state government and to the economy generally has in large measure assured the financial stability of the 49th state."

Richfield president Chas. S. Jones made the presentation on behalf of the company. Other Richfield officials taking part in the ceremonies were: W. Alton Jones, chairman of the board; P. C. Spencer, chairman of the finance committee; W. C. Bishop, Alaska division exploration manager.

Richfield's historic discovery was made four years ago, in July, 1957, in the Swanson River Field on the Kenai Peninsula. Since the discovery, Standard Oil Company of California has become the operator and a partner with Richfield in developing the Swanson River Field and the Soldotna Creek Field, where oil was discovered early in 1960. Today there are 38 producing wells in the two fields producing approximately 20,000 barrels per day and exploration is being carried on in other areas of the state.

Visco Products Introduces New Device

A new, patented treating device, designed to increase the efficiency of emulsion breaker chemicals, has been introduced by Visco Products Company, Houston. Called the MARVEL® Treater, the unit provides maximum mixing of emulsion breaker chemical with produced fluid, and is said to not only cut chemical consumption but, in many cases, reduce heat requirements, thus delivering oil of increased gravity.

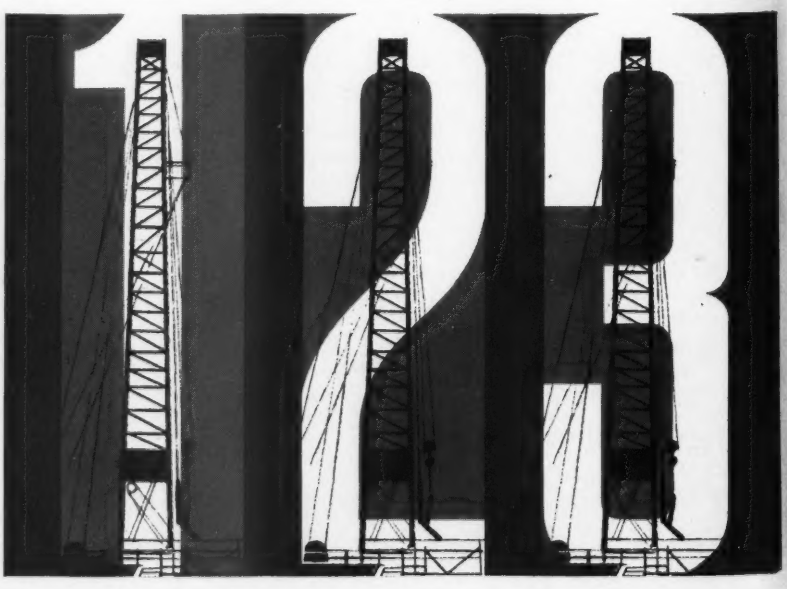
Installed in the flow line, so that all fluid going to the treating unit passes through it, the treater, according to Visco, completely disperses the emulsion breaker in the oil without significantly affecting pressure.

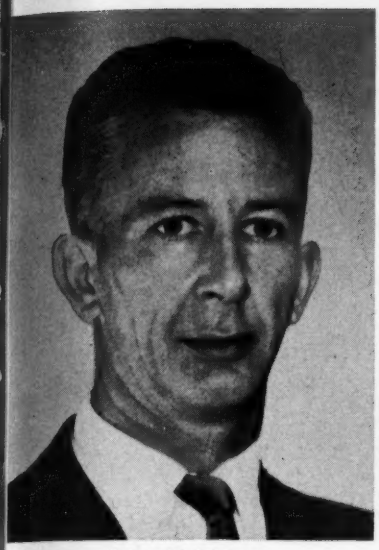
The unit, available in sizes to fit 2, 3, 4 or 6-inch lines, may be either leased or purchased.

TO DEDICATE TIDEWATER OIL REFINERY IN COPENHAGEN—Mr. and Mrs. Chester Rude (member of the board of directors for Tidewater Oil and vice chairman of the board of Security First National Bank of Los Angeles) are pictured just before boarding their SAS polar jet for Europe recently. Mr. Rude will attend the dedication of a new Tidewater Oil refinery in Copenhagen. Before the dedication, the prominent Southland couple will tour Southern Norway and the fjord country.

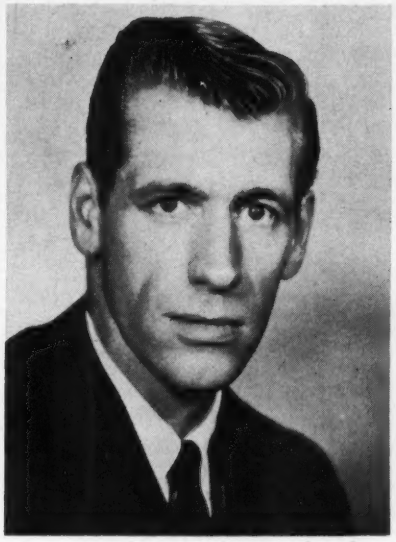
THESE ARE BUSY RIGS ...IN THE SACRAMENTO VALLEY

Unequalled service in Northern California





Robert W. Weber



James R. White

Servco Increases Its Engineering And Research Facilities

Servco recently enlarged its research and engineering facilities and added Robert W. Weber and James R. White to the engineering staff.

Bruce Cordary, manager of research and engineering, stated that Servco has been engaged, for the past few years, in developing tools and methods for decreasing the cost and for improving well completions. Recently the company introduced a new line of expandable rock-bit type hole openers, or under-reamers, that has materially improved cement jobs on liners, provided more space for gravel packing, removed keyseats, and served a multitude of purposes in oil well drilling.

Servco also has in use a new notch-jetting tool for opening casing opposite pay zones and for jetting the formation to provide better yields from these zones by reducing formation damage. The use of formation fracing with propping agents is often used after the notch-jetting.

Servco also has been doing fundamental research for several years on jetting and cementing tools used in combination with downhole milling. This year, Servco introduced a new type liner mill equipped with jets for washing the formation after milling a liner. Wall cake and cement are removed subsequent to the milling operation while the tool is still in the hole. Also, the formation may be jet cemented or a cement plug set on the same tool run.

Other new tools currently in the testing and development stage will be introduced to the industry in the near future.

Gasoline Plant to Be Built at Carpinteria

A contract for construction of a gasoline recovery plant at Carpinteria to serve offshore oil producing properties jointly owned by Standard Oil Company of California, Western Operations, Inc., and Humble Oil and Refining Company has been awarded to Southwestern Engineering Company, it was announced recently.

The new facility will replace three rented units now in service and will boost handling capacity to 20,000,000 cubic feet of natural gas daily. Completion of the half-million-dollar installation is scheduled for January, 1962. Like a similar facility now under construction by Standard at Gaviota, the Carpinteria plant will have built-in safeguards against noise, fumes or other hazards.

In addition to recovering natural gasolines from the gas, the plant will condition it for delivery to the local Pacific Lighting Gas Supply pipe line.

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Field Development

LOS ANGELES BASIN

Atlantic Oil Co. Wildcat

Atlantic Oil Company has awarded a contract to Rocky Mountain Drilling Co. to drill N. L. & F. No. 1 on the northeast quarter of Section 2-4n-17w. The wildcat is one mile west of the Honor Rancho Field and one mile south of the Castaic Hills Field. Proposed depth of the test is 8500 feet.

New Fault Block Discovery

Buttram Petroleum Corp. and Jade Oil Company completed Metropolitan No. 2 as a new fault block discovery from the perforated interval 3111-3448 feet. Located at the intersection of Stanley Avenue and First Street, the well was drilled to a total depth of 6395 feet and after plugging back was redrilled to 3450 feet. 7" casing is cemented at 3102 feet. Location has been staked for Gilmore No. 6 south and west from the intersection of Stanley and First Street. The well will not be drilled directionally.

Beverly Hills Development

Signal Oil & Gas Company resumed operations on Signal-Richfield-Hillcrest No. 10 and after milling through the 9⅝" casing at 6060 feet is redrilling at 7500 feet. Originally drilled as Signal-Richfield-Community No. 3, the well was suspended in October, 1959, at a total depth of 11,544 feet. The well is located south and west from the intersection of Peg Place and Pico Boulevard on Section 25-1s-15w. In Section 36-1s-15w south and east from the intersection of Pico Blvd. and Kerwood Place operations were resumed on Signal-Richfield-U 44 No. 2, originally drilled as Signal-Richfield-Rancho No. 2, and is testing shut-off on 7" casing cemented at 11,567 feet after drilling to 11,593 feet. Total depth is 11,601 feet.

SAN JOAQUIN VALLEY

Shell Wildcat

Shell Oil Company is preparing rig site for Shell-Standard Fee No. 88 to be drilled on the southeast quarter of Section 25-19s-15e. The location falls midway between the East Coalinga Extension and East Side area production.

Two Rosedale Ranch Tests

Standard Oil Company has staked locations for two development wells in the Rosedale Ranch Field. KCL Lease 31 No. 83A-1 will be drilled on the northeast quarter of Section 1-29s-26e, and No. 84A-2 on the northeast quarter of Section 2-29s-26e.

Humble Gas Test

Humble Oil & Refining Co. has staked location for George W. Watson et ux No. 1 on the northwest quarter of Section 17-28s-25e in the Shafter gas area about two miles northwest of the Rio Bravo Oil Field. One-half mile to the west, in 1954, Tidewater Oil Co. completed Loepp No. 1 flowing 2344 mcf of gas per day from the Etchegoin perforations 4295-4305 feet but it was later abandoned.

Rheem Outpost Completion

Richard S. Rheem, Operator, completed Norris-KCL-A No. 45X-26 flowing 325 b/d of 28.5 gravity oil with a cut of 0.6 per cent. Flow was from the perforated interval 10,097-10,160 feet through a ¼" bean with a flow pressure of 520 psi. Gas was gauged at 188 mcf. An outpost test of the Gosford Field located on the southwest quarter of Section 26-30s-26e, the well was drilled to a total depth of 10,391 feet and cemented 5½" casing at 10,290 feet.

Gosford Dual Completion

Universal Consolidated Oil Co. completed KCY No. 74-26 as a dual completion flowing 175 b/d of 30 gravity oil cutting 4 per cent from the Upper Stevens perforations 9735-9785 feet and 312 b/d of 28.9 gravity oil cutting 0.6 per cent from the Lower Stevens 10,050-10,132 feet. Located on the northeast quarter of Section 26-30s-26e, total depth is 10,293 feet, with 7" casing cemented at 10,271 feet.

Bowerbank Gas Test

Miller & York Oil Operations, Inc., drilled to a total depth of 4800 feet on C.W.O.D. No. 1 and after running logs cemented 5½" casing at 4765 feet. Casing is being gun perforated for a production test. The well is located on the northwest quarter of Section 16-29s-24e in Kern County about 3000 feet northwest of production.

Mount Poso Wildcat

Standard Oil Company is preparing to pump test its Mount Poso area wildcat, Williams No. 1-11, located on the northwest quarter of Section 11-27s-28e in Kern County west of Mount Poso production. The test was drilled to a total depth of 1620 feet and plugged back to 1375 feet. 8⅝" casing is cemented at 1255 feet.

Tejon Flats Wildcat Testing

Phillips Petroleum Co. is production testing S.P. No. 48-1 at a total depth of 12,894 feet with 7" casing cemented at 12,870 feet. The test is located on the southeast quarter of Section 35-12n-19w in Kern County six miles north of the Grapevine Oil Field.

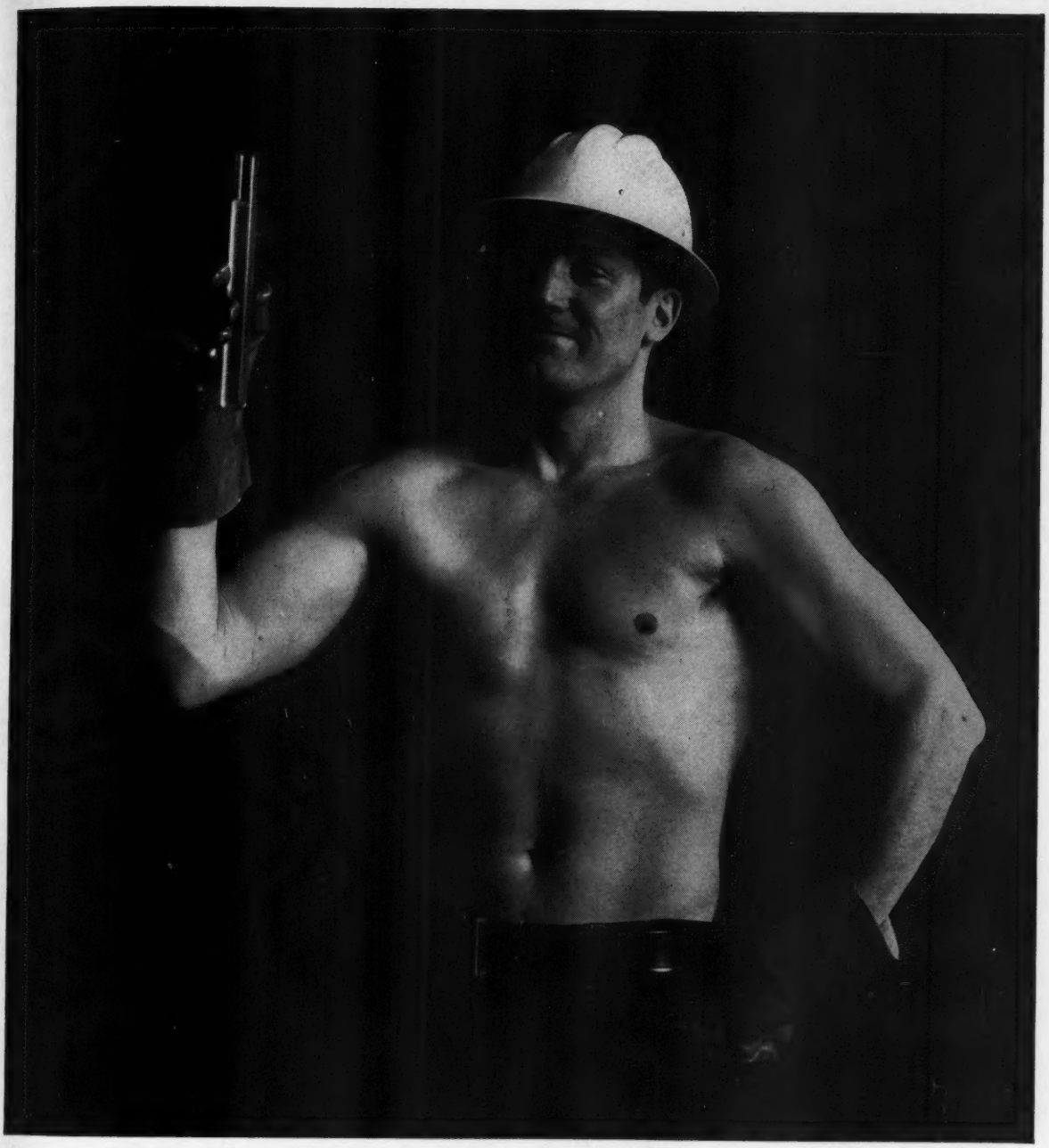
NORTHERN CALIFORNIA

Tehama County Gas Test

O. G. Green, Operator, has staked location for a Forbes Zone test on the southwest quarter of Section 13-23n-4w. The location falls three miles southwest of gas production at the Kirkwood Field.

Marysville-Buttes Completion

Buttes Gas & Oil Company completed Buttes Community No. 20 flowing 4120 mcf of gas per day through a ⅜" bean with pressures of 1175/1275 psi. Flow is from the perforated interval 3175-4228 feet. Located on the southeast quarter of Section 33-16n-1e in Sutter County, the completion was drilled to a total depth of 5275 feet and cemented 5½"



The oilman doesn't know his own strength. Not all oilmen may realize it, but from petroleum come some of the strongest substances known to man—Epon® resins. These resins are so strong they can replace the rivets in airplane wings! And perhaps oilmen don't always realize their strength in another way—the many vital contributions they make to our everyday life. Thousands of products have been made possible by petroleum research. And what makes that possible? You, the oilman. So the next time you hear someone speak out against oil, remember you've good reason to speak up. After all, you're helping make petroleum one of the world's most versatile natural resources.

SHELL OIL COMPANY

casing at 4848 feet. Rotary is being moved to Buttes Community No. 22, an outpost test located on the northwest quarter of Section 3-15n-1e.

Yolo County Gas Test

Standard Oil Co. has staked location for River Farms Four No. 1 on the northeast quarter of Section 23-12n-1e. The well is in the River Farms area about three miles east of the Sycamore Slough gas area and will be a Cretaceous test.

Kirk Gas Field Test

Gulf Oil Corp. of Calif. is grading roads and rig site for Goff-Erdman Tract No. 3 located on the center of the northeast quarter of Section 16-13n-3e in Colusa County. This location falls between the company's discovery well of the Kirk Field and Shell Oil Company's Schohr No. 27-9, a recent new pool discovery.

Arbuckle Field Test

Standard Oil Company is preparing to spud Pexco-Bryan-Landco No. 3 located on the southwest quarter of Section 21-14n-2w in Colusa County. The test is a field development well between two producers.

Los Medanos Final Completion

McCulloch Oil Corp.'s Duarte No. 1 on Section 17-2n-1w in Contra Costa County approximately 35 miles east of San Francisco was tied into a Pacific Gas & Electric Co. transmission line during June. By the completion of its 30-day test, this 4235-foot well was flowing natural gas at 40,000 mcf per day and has produced in excess of 1¼ billion cubic feet of gas with a value of more than $375,000 for a new state record. Highest flow rate for any other well was 30,000 mcf/d. It is anticipated that P. G. & E. will take a minimum of 10,000 mcf per day from Duarte No. 1 under existing contracts. McCulloch Oil has a 46-2/3 per cent working interest in this notable well, which has completely paid out all of its drilling and completion costs in just over two weeks. Total depth is 4235 feet with 5½" casing cemented at 4306 feet.

Brown Gas Test

E. C. Brown, Operator, has graded rig site for West Dunnigan No. 1-25, a wildcat test located on the northeast quarter of Section 25-12n-2w in Yolo County. The test is six miles northwest of the Dunnigan Hills Gas Field.

Shell Gas Test

Shell Oil Co. is preparing to drill Glide No. 4-1, a wildcat test located on the southeast quarter of Section 1-7n-3e in Yolo County. The test is in the Saxon area about two miles northwest of a well drilled by Socony Mobil Oil Co., Inc., and abandoned at a total depth of 15,299 feet.

Great Basins Wildcat

Five miles southwest of the town of Turlock, Great Basins Petroleum Company is drilling below 1500 feet on Southland Royalty-Vaughn No. 27-6 located on the southwest quarter of Section 6-6s-10e in Stanislaus County. Proposed depth of the wildcat is 8500 feet.

Union Wildcat Abandoned

Union Oil Company of California drilled to a total depth of 8000 feet on Sinclear No. 1 and after running logs plugged and abandoned the well. The test was located on the southwest quarter of Section 5-5s-9e about nine miles northwest of the town of Turlock in Stanislaus County.

West Vernalis Outpost

Occidental Petroleum Corp. is grading roads and rig site for Raspo No. 1 located on the northwest quarter of Section 6-4s-6e in San Joaquin County. Location of the test is about one mile southwest of present gas production.

Gulf Gas Test

Gulf Oil Corp. of Calif. is preparing to drill Greenwood No. 1 located on the southwest quarter of Section 22-6n-1e in Solano County. The wildcat is in the Elmira area about three miles southwest of the Bunker Gas Field and will be drilled to approximately 9000 feet.

Walnut Grove Completion

Texaco Inc. completed Wilson-McCall No. 2 flowing 1800 mcf of gas per day from the intervals 3034-3042 and 3062-3069 feet. Flow was through a ¼" bean with 1200 psi tubing and 1200 psi casing pressures. Drilled to a total depth of 5000 feet, 4½" casing was cemented at 3606 feet and the cement drilled out to 3570 feet. The completion is located on the northeast quarter of Section 2-4n-4e in Sacramento County.

Gulf Completion

Gulf Oil Corp. of Calif. tested Unit 15 No. 1 flowing 2550 mcf of gas per day through a ¾" bean from the perforations 7853-7873 and 7874-7879 feet. Testing is under way on upper showings. An outpost test to the West Grimes Gas Field located on the northwest quarter of Section 15-14n-1w in Colusa County, the well has a total depth of 7987 feet with 4½" casing cemented at 7980 feet.

Cameron Oil Dual Completion

Cameron Oil Company completed Grimes Operating Unit 5 No. 2 flowing 5860 mcf of gas per day through tubing with 2750 psi and 5300 mcf of gas per day through the casing with 1732 psi. The completion is located on the northeast quarter of Section 5-14n-1e in the Grimes Gas Field of Colusa County. Total depth is 8729 feet with 5½" casing cemented at 8704 feet.

COASTAL AREA

Standard Deep Test

Standard Oil Company is drilling below 2000 feet on Standard-Texaco-Goodenough No. 1 located on the southwest quarter of Section 7-4n-19w in Ventura County. Rig site is two miles north of the Fillmore Field and the test will be drilled to approximately 15,000 feet.

South Tapo Test Abandoned

Alpha Petroleum Co. drilled to a total depth of 876 feet on Alpha No. 1 and after a formation test of the interval 796-876 feet recovered ten feet of oil-spotted drilling fluid, plugged and abandoned the test. Location of the well was on the northwest quarter of Section 13-3n-18w in Ventura County. The drilling rig was moved north and east to Alpha No. 2.

Union Deep Test

Union Oil Company of Calif. has staked location for Newlove No. 101, a deep test of the Orcutt Field on the Newlove lease. Located on Section 19-9n-33w, the test will be drilled to approximately 11,000 feet.

Sespe Completion

Central Lease, Inc., completed Lynn No. 1 pumping 100 b/d of 30 gravity oil cutting 0.1 per cent from the interval 1771-1856 feet. Located on the northeast quarter of Section 6-4n-19w, the completion was drilled to a total depth of 1856 feet and cemented 8⅝" casing at 1771 feet.

San Mateo County

William Y. Lee of Long Beach

has staked a location for Cassinelli No. 2 near the intersection of Highway No. 1 and Higgins Canyon Rd. on Section 33-5s-5w in San Mateo County. The well will be a 4000-foot test.

OTHER AREAS

Alaska

Union Oil Company of Calif. and The Ohio Oil Company completed Sterling Unit No. 23-15 as a new field discovery flowing 6984 mcf of gas per day from the perforations 5250-5254 feet. Flow was through a 1" surface bean with a 5/8" bottom hole bean. Total depth is 14,832 feet with 7" casing cemented at 8388 feet. The discovery is located on the southwest quarter of Section 15-5n-10w in the northwest Kenai area between the Kenai and West Fork Gas Fields.

Standard Oil Company of California, as Operator for itself and Richfield Oil Corporation, plans to drill an exploratory well approximately 17 miles northeast of Homer on the Kenai Peninsula. The proposed well, Anchor River No. 1, will be located approximately four miles west of Kachemak Bay near the headwaters of the Anchor River and Swift Creek. This well will fall within Standard's Kenai Peninsula development contract area.

Union Oil Company of Calif. and The Ohio Oil Company have staked location for Fish Creek Unit No. 12-8 on the northwest quarter of Section 8-16n-3w in the Knik Arm area. The well is about 20 miles north of the town of Anchorage and plans call for a 10,000-foot test.

Standard Oil Company-Richfield Oil Corp. are moving in rotary to drill White River No. 1 on Section 19-21s-18e in the Yakataga area. About 20 miles north of the Standard and Richfield test, Duktoth River No. 1, drilled by Richfield Oil Corp., B. P. Exploration Co. and Sinclair Oil & Gas Co., drilled to a total depth of 10,390 feet and has been suspended. The test is located on Section 24-20s-15e.

Montana

Ryan Oil Company is preparing to move in rotary on State No. 1 located on the southwest quarter of Section 16-6s-53e in Powder River County. The wildcat will test the Minnelusa at about 6800 feet.

Hose-Austin Drilling Co. has staked location for Federal No. 1 on the southwest quarter of Section 18-6s-53e in Powder River County. The well will be a Newcastle test at about 5100 feet and is ten miles southeast of the town of Broadus.

Shell Oil Co. has staked location for a Roosevelt County wildcat four miles south of Devonian production at the Tule Creek Field. Watters No. 44-2 will be drilled on the southeast quarter of Section 2-29n-47e and will be a Duperow test at about 7600 feet.

New Mexico

Union Oil Company is preparing to drill Navajo-11 No. 1-27 on the southwest quarter of Section 27-28n-16w in San Juan County. The wildcat will test the Gallup at about 3800 feet and is six miles south of the Hogback production and about the same distance northeast of the Table Mesa Field. The company holds a lease block of 2560 acres.

Foutz and Bursum completed Bayless-Wigham No. 1, its Rio Arriba County wildcat, as a new field discovery pumping 72 b/d oil from the Sanastee topped at 5165 feet. Total depth of the well is 5264 feet and 4½" casing is cemented at 5168 feet. The discovery is located on the northeast quarter of Section 27-28n-1w about eight miles north of the Puerto Chiquite Field.

Utah

Pure Oil Company completed Northwest Lisbon-H No. 1 flowing 2730 b/d rate on a six-hour test. Flow was through two lines, one with a 28/64" bean and one with a 48/64" bean, from the Mississippian perforations 8514-8682 feet. The Mississippian was topped at 8308 feet. Pure's completion is in the western part of the Lisbon Field on the southeast quarter of Section 9-30s-24w in San Juan County and was drilled to a total depth of 8853 feet. 5½" casing is cemented at 8848 feet.

Phillips Petroleum Co. is drilling ahead below 4300 feet on Escalante Anticline No. 2 after flowing 23,600 mcf of non-flammable gas with the hole bottomed at 3680 feet. On a previous test with the bottom at 3554 feet, the flow was 17,900 mcf of gas per day. The first test on the well was at 2600 feet in Triassic and the flow was gauged at 24,000 mcf per day of 98 per cent carbon dioxide with a trace of helium. Phillips' test is on the southwest quarter of Section 29-32s-3e in Garfield County. Proposed depth of the test is 6200 feet to the Mississippian.

Washington

Humble Oil & Refining Co. is drilling below 3000 feet on Everett Trust & Savings Bank Executor et al No. B-1. Located on the southwest quarter of Section 24-20n-12w in Grays Harbor County, the well is a projected 4100-foot test. On Section 24-20n-12w, Humble drilled to a total depth of 5000 feet on Sunshine Mining-Ollar State No. 1, and after fracing is swabbing load oil.

Wyoming

Chandler and Simpson completed Verbrugge-Government No. 1 as a new field discovery in the Almond flowing 1500 mcf of gas and 7 barrels per day condensate from the perforations 2361-2371 feet through a 24/64" bean. The discovery is 3½ miles west of the Patrick Draw Field. Located on the northeast quarter of Section 2-18n-100w in Sweetwater County, the well was drilled to a total depth of 2488 feet and cemented 4½" casing at 2442 feet. Top of the Almond was logged at 2369 feet.

Continental Oil Company has staked location for a 9300-foot Almond test on the Bitter Creek Unit in Sweetwater County. The wildcat, Unit No. 1, will be drilled on the northwest quarter of Section 6-16n-99w. Nearest production is six miles to the north.

Cities Service Ups Field Activities

Cities Service announced a 20 per cent increase in its 1961 well drilling and lease acquisition program.

The expanded drilling effort is due to improvement in the quality of drilling prospects developed by the company in the United States and Canada during recent months.

The expansion calls for the addition of 15 test wells and 40 development wells.

WANTED

INDEPENDENT OPERATOR

to drill on 75,000 acres of potential oil/gas land on shares.

Details to principals.

KAY POTTER

Box 182, Baldwin Park, Calif.

THIS LAUGH OFF!!

Asked why he wanted a day off, the faithful but timid employe explained that it was his silver wedding anniversary. "My wife and I would like to celebrate," he coaxed.

"Oh, all right!" grumbled the boss. "But tell me, are we going to have to put up with this sort of thing every 25 years?"

"Yes," said the personnel manager to the job applicant, "what we're after is a man of vision; a man with drive, determination, fire; a man who can inspire others; a man who can pull our bowling team out of last place!"

You're getting old, pardner, when you don't care where your wife goes, just so you don't have to go along.

Boss: You can't come in here and ask for a raise just like that! You must work yourself up!

Employe: But I did! Look, I'm trembling all over!

"My wife kisses me evenings when I get home."

"Affection?"

"No, investigation."

The newlyweds were driving away from the church. The groom pulled the bride toward him, put his arms around her shoulder, kissed her, and said, "Now, Honey, what's this nonsense about your quitting your job?"

Child specialist, giving advice to mother: "You'll have to handle this child carefully. Remember, you're dealing with a sensitive, high-strung little stinker."

Many a woman could add years to her life simply by telling the truth.

"I see you aren't a gentleman," hissed the woman on the windy street corner as she tried vainly to keep her skirt in place.

"Nope," replied the gawker, "and I see you aren't, either."

"Why are you running so fast?"

"I saw a snake, but it turned out to be a stick."

"Then why are you shaking?"

"Because the stick I picked up to hit it with was a snake."

If your wife wants to learn to drive, don't stand in her way.

Auntie: "And what will you do when you grow up to be a great big girl?"

Annie: "Reduce!"

The middle-aged woman with the nice figure may be only a bulge in a girdled cage.

Driver of a jalopy—Dollar's worth of gas, please.

Service station attendant — Why not fill her up?

Driver—She may not go that far.

It was the morning after a wild, wet night, and the convention delegate staggered down to the hotel restaurant and asked for a big glass of tomato juice.

"May I fix you a Bromo-Seltzer?" asked the waitress, immediately diagnosing the greenness around his gills.

"Ye gods, no," said the delegate. "I couldn't stand the noise."

A vivacious young Hollywood chick shocked her Pasadena-reared beau by drawing on her gloves as they started down the street on their first date.

"Where I come from," childed the young man stuffily, "people would as soon see a woman put on her stockings in public as her gloves."

"Where I come from," retorted the young lady, "they'd rather!"

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